



# *Producers* **GRADING GUIDE**



PUBLISHED BY

*The*

**NORTH-WEST LINE ELEVATORS**

*Association*

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## TO CALCULATE THE NUMBER OF BUSHEL OF GRAIN IN A BIN

1. Determine the number of cubic feet in the bin.
  - (a) For square or rectangular bins, multiply the length by the width by the depth.
  - (b) For round bins, multiply the radius by the radius by 3.14 by the depth (the radius is one-half the diameter).
2. Convert cubic feet to measured bushels by multiplying the number of cubic feet by the factor 0.78.
3. Convert measured bushels to bushels by weight, by multiplying the number of measured bushels by the actual weight per measured bushel of the grain, and divide by the legal weight per measured bushel (wheat, 60 lbs.; barley, 48 lbs.; oats, 34 lbs.; flax, 56 lbs.; and rye, 56 lbs.)

**Example (a)**—A rectangular bin 8' by 16' contains wheat weighing 85 lbs. to the bushel to a depth of 6 feet. How many bushels by weight are in the bin?

Number of cubic feet .....  $8 \times 16 \times 6 = 768$ .

Number of measured bushels  $768 \times 0.78 = 599.04$

Number of bus. by weight  $599.04 \times 65 / 60 = 648.96$

**Example (b)**—A round bin 16 ft. in diameter is filled with wheat weighing 85 lbs. to the bushel to a depth of 6 feet. How many bushels by weight are in the bin?

Number of cubic feet .....  $8 \times 8 \times 3.14 \times 6 = 1205.76$

Number of measured bushels  $1205.76 \times 0.78 = 940.49$

Number of bus. by weight  $= 940.49 \times 65 / 60 = 1018.87$

# Grading Of Farm Products

Government grading of Canadian farm products is essentially an aid to orderly marketing and efficient buying and selling. The confidence created by this system of grading has been an important factor in expanding both domestic and export demand for agricultural products.

The grading and inspection of farm products arose from the desire and need of producers, dealers, and consumers for a uniform "yardstick" with which to measure important variations in quality. The producer is interested in obtaining for his product, a price commensurate with its quality. The processor and distributor need a quality gauge to facilitate buying and selling, and to establish fair prices on a product quality basis. The consumer, on the other hand, wants assurance that he is obtaining a product of a quality in line with the price paid.

These needs, translated into legislative action, have resulted in government grading standards for practically every article of produce sold by farmers. While this information is available free upon request, the farmer must secure and study a large number of federal acts to become familiar with the grade standards of the products he has for sale. It is hoped that this book will make it a great deal easier for farmers to acquaint themselves with the official grade standards of the major products of Western Canadian farms.

The member companies of The North-West Line Elevators Association believe the farmer has a right to know, and should know, the essential details as to the manner of grading and marketing his own products. We believe this Producers Grading Guide will prove useful and valuable to practical farmers, grain buyers, and others in the Prairie Provinces.

## **The North-West Line Elevators Association.**

Prepared by

**LINE ELEVATORS FARM SERVICE**

Revised August 1965.

**DISCARD ALL PREVIOUS ISSUES**

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# Producers Grading Guide

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## WESTERN CANADA GRAIN GRADES

### DEFINITIONS

The Canada Grain Act is administered by the Board of Grain Commissioners of the Dominion Department of Agriculture.

**Statutory Grades.** The Statutory grades of grain are defined in the Canada Grain Act by statute or act of Parliament.

**Commercial Grades.** The Commercial grades of grain are set up each year by the Western Committee on Grain Standards.

**"Off" Grades.** The "off" grades include all grain which for various reasons will not meet the requirements of the Statutory or Commercial grades. Grain is graded into the "off" grades for excessive moisture or foreign odors, for heated, bin burnt, musty, frosted, sprouted, smutty or cracked kernels; and for admixtures of other grains or for foreign material such as gravel, Ragweed, Tartarian Buckwheat, etc.

### GRADING FACTORS

With the exception of weight per measured bushel, moisture content, and purity, grain is evaluated for grading mainly on a system of visual inspection.

**Weight per Measured Bushel** is an indication of the plumpness and milling value of the grain, i.e.; the amount of flour that can be made from a bushel of wheat.

**Variety.** Because of their inherent qualities certain varieties are not permitted into the top grades of their respective classes.

**Hard Vitreous Kernels** (Wheat only). The percentage of hard vitreous kernels is an indication of the quality and consequently the blending value for breadmaking and macaroni quality of common and durum wheat respectively. In other words, piebald and starchy kernels cause wheat to be degraded according to the percentage given in the grade definitions.

**Soundness.** "The standard of quality," as it is designated in the grade definitions, is affected by **disease** (Smut, Smudge or Black Point), **weather** (excessive moisture, sprouted, frosted, bleached or improperly ripened), **storage** (heated, musty or bin burnt,) and **mechanical damage** (cracked, broken or peeled).

**Purity.** Impurities which can be easily removed in cleaning are classed as dockage and expressed in percentage, i.e.; small seeds, broken kernels, trash. Grain containing impurities or mixtures that can be readily cleaned out and are of value, are designated M.S. (Machine Separation). Impurities which cannot be cleaned out cause the grain to be degraded, rejected or placed into the mixed grain grades depending on the type and amount present.

**Official Sample Size.** Where impurities in any of the "off" grades are designated by count, the official sample size is based on 500 grams or 17½ ounces.

# STATUTORY GRADES

		STANDARD OF QUALITY		MAXIMUM LIMITS OF FOREIGN MATERIAL			
				Foreign Material other than Wheat		Wheats of other Classes or Varieties	
				Matter other than Cereal Grains	Total including Cereal Grains	Durum	Total including Durum
RED SPRING WHEAT	Min. Wgt. Per Bus.	VARIETY	Minimum % Hard Vitreous Kernels	SOUNDNESS			
1 Hard	62	Marquis or equal to Marquis.	80	Sound and well matured.	Free	Free	Free
1 Northern	60	Marquis or equal to Marquis.	65	Well matured, practically free from damaged kernels.	Practically free	Practically free	About 1%
2 Northern	58	Marquis or equal to Marquis.	50	Reasonably well matured, reasonably free from damaged kernels.	Practically free	About 1%	3%
3 Northern	57	Red Spring Wheat of fair milling quality excluding Garnet.	35	Reasonably well matured, excluded from higher grades on account of lightly frosted, immature or other light damage.	Reasonably free	3%	10%
4 Northern	56	Red Spring Wheat excluding Garnet and Club		Reasonably well matured, excluded from higher grades on account of frosted, immature or other damage.	Reasonably free	4%	10%
4 Special	53	Red Spring Wheat. excluding Club		Reasonably well matured, rusted or shrunk but otherwise reasonably sound.	Reasonably free	4%	
GARNET	*	*	*	*	*	*	*
1 C.W.	60	Garnet	75	Well matured, practically free from damaged kernels.	Free	Practically free	5%
2 C.W.	58	Garnet	60	Reasonably well matured, reasonably free from damaged kernels.	Practically free	About 1%	10%
3 C.W.	57	Garnet	35	Reasonably well matured, excluded from higher grades on account of lightly frosted, immature or other light damage.	Practically free	3%	15%
4 C.W.	56	Garnet	—	COMMERCIAL GRADES Excluded from higher grades on account of frosted, immature.	Reasonably Free	4%	20%

\* Same headings apply.

# STATUTORY GRADES

WHITE SPRING WHEAT	Min. Wgt. Per Bus.	STANDARD OF QUALITY			MAXIMUM LIMITS OF FOREIGN MATERIAL			
		VARIETY	Minimum % Hard Vitreous Kernels	SOUNDNESS	Foreign Material other than Wheat		Wheat of other Classes or Varieties	Total Including Durum
					Matter other than Cereal Grains	Total Including Cereal Grains		
1 C.W.	60	Quality or equal to Quality.	65	Well matured, practically free from damaged kernels.	Practically free	Practically free	About 1%	3%
2 C.W.	58	White Spring Wheat of good milling quality.	50	Reasonably well matured, reasonably free from damaged kernels.	Practically free	About 1%	About 2%	5%
3 C.W.	57	White Spring Wheat of fair milling quality.	25	Reasonably well matured, excluded from higher grades on account of lightly frosted, immature or other light damage.	Reasonably free	About 2%	4%	10%
4 C.W.	54	White Spring Wheat.		Reasonably well matured, excluded from higher grades on account of frosted, immature or other damage.	Reasonably free	3%	5%	20%

## NOTES

### RED SPRING

**Red Spring Wheat** otherwise eligible for the grade of No. 1 Manitoba Hard but containing up to 1 per cent of wheat of other classes or varieties including Garnet will be graded No. 1 Manitoba Northern.

**Red Spring Wheat** otherwise eligible for the grade of No. 1 Manitoba Hard or No. 1 Manitoba Northern but containing more than 1 per cent but not more than 3 per cent of wheat of other classes or varieties (including Garnet) will be graded No. 2 Manitoba Northern.

**Red Spring Wheat** otherwise eligible for any of the first three grades of Red Spring Wheat, No. 1 Manitoba Hard, No. 1 Manitoba Northern, No. 2 Manitoba Northern, but containing over 3 per cent but not more than 10 per cent of other varieties of Red Spring Wheat (including Garnet) will be graded No. 3 Manitoba Northern.

**Red Spring Wheat** otherwise eligible for the grades of No. 1 Manitoba Hard, to No. 4 Manitoba Northern but containing over 10 per cent of Garnet will be graded as No. 5 Wheat.

**NOTE**—Effective August 1, 1951, Red Bobs variety of wheat will be degraded to No. 3 Manitoba Northern, account of being found not equal to Marquis in milling and baking strength.

Feed Wheat shall be practically free of small seeds, (for example pigweed, lamb's quarters, etc.) and other material removable through a sieve with  $4\frac{1}{2}/64$ " round perforations. Seeds allowed refer to large Seeds such as Wild Buckwheat.

All Rusted or Shrunk Wheat that contains green or frosted kernels will be graded into the regular grades, and NOT into the Special Grades. Wheat weighing less than 49 pounds per bushel will be graded as Feed Wheat.

### GARNET

**Garnet wheat** not eligible for one of the first three grades will be graded into No. 4 Special or the commercial grades of Red Spring Wheat No. 5. No. 6 or Feed Wheat, or special commercial grades, No. 5 Special and No. 6 Special, or into



STATUTORY GRADES

WINTER WHEAT	Min. Wgt. Per Bus.	STANDARD OF QUALITY			MAXIMUM LIMITS OF FOREIGN MATERIAL			
		VARIETY	Minimum % Hard Vitreous Kernels	SOUNDNESS	Foreign Material other than Wheat	Total including Cereal Grains	Wheats of other Classes or Varieties	Total including Durum
1 Alberta Red	62	Any variety of Red Winter Wheat.	60	Well matured, practically free from damaged kernels.	Practically free	About 1%	Durum	5%
2 Alberta	60	Any variety of Winter Wheat.	45	Well matured, practically free from damaged kernels.	Reasonably free	About 2%	About 1%	10%
3 Alberta	57	Any variety of Winter Wheat.	..	Reasonably well matured, but excluded from preceding grades on account of frosted or otherwise damaged kernels.	Reasonably free	About 2½%	About 2%	20%

## STATUTORY GRADES

AMBER DURUM	STANDARD OF QUALITY				MAXIMUM LIMITS OF FOREIGN MATERIAL			
	Min. Wgt. Per Bus.	VARIETY	Minimum % Hard Vitrous Kernels	SOUNDNESS	Foreign Material other than Wheat		Wheats of other Classes or Varieties	
					Matter other than Cereal Grains	Total Including Cereal Grains	Red Durum	Total + Red Durum
1 C.W.	62	Minum or equal to Minum.	80	Well matured, practically free from damaged kernels.	Practically free	About 1½%		5%
2 C.W.	60	Minum or equal to Minum.	65	Well matured, practically free from damaged kernels.	Practically free	About 1%	5%	10%
3 C.W.	58	Minum or equal to Minum.	40	Reasonably well matured, reasonably free from damaged kernels.	Practically free	About 2%	10%	15%
4 C.W.	56	Any variety of Amber Durum.	..	Reasonably well matured, but ex- cluded from preceding grades on account of frosted or otherwise dam- aged kernels.	Reasonably free	About 2½%	10%	20%
5 C.W.	54	Any variety of Amber Durum.	..	Frosted or otherwise damaged kernels.	Reasonably free	3%	10%	25%
6 C.W.	51	Any variety of Amber Durum.	..	Excluded from preceding grades on account of damage or light weight.	Reasonably free	3%	10%	30%

Varieties of Durum not equal to Mindum shall be excluded from No. 1 C.W. when in excess of 5%, from No. 2 C.W. when in excess of 10% and from 3 C.W. when in excess of 15%.

DURUM — All Red Durum Wheat and any other wheats containing over 10% of Red Durum shall be graded as "Canada Western Red Durum," irrespective of quality.

Amber Durum weighing less than 51 pounds per bushel will grade "Feed Wheat."

# COMMERCIAL GRADES

WHEAT	Min. Wgt. Per Bus.	VARIETY	STANDARD OF QUALITY	MAXIMUM LIMITS OF FOREIGN MATERIAL			
				Foreign Material other than Wheat		Wheats of other Classes	
				Matter other than Cereal Grains	Total Including Cereal Grains	Durum	Total Including Durum
No. 5 Wheat	53	Red or White Spring or Winter excluding Club.	Excluded from higher grades on account of frosted or otherwise damaged kernels.	Reasonably free	3%	5%	....
No. 6 Wheat	51	Red or White Spring or Winter.	Excluded from higher grades on account of frosted or otherwise damaged kernels.	Reasonably free	3%	6%	....
†No. 5 Special	51	Any variety of Red Spring excluding Club	Reasonably well matured, rusted or shrunken but otherwise reasonably sound.	Reasonably free	3%	5%	10%
†No. 6 Special	49	Any variety of Red Spring excluding Club	Reasonably well matured, rusted or shrunken but otherwise reasonably sound.	Reasonably free	3%	5%	10%
Feed Wheat	..	Any variety.	Too badly damaged for higher grades or on account of light weight.	About 3% Large Seeds and/or Mixed Feed Oats and/or Wheat heads Practically free	About 13%	...	....
Extra 4 C.W. Amber Durum	58	Any variety of Amber Durum.	Reasonably well matured, reasonably free from damaged kernels. Minimum percent hard vitreous kernels 40%.	•	•	10%	15%
WINTER WHEAT	•	•	•	•	•	•	•
4 A.W.	56	Any variety of Winter Wheat.	Excluded from the higher grades on account of frosted, shrunken or otherwise damaged kernels.	Reasonably free	About 2½%	About 3%	20%

\*Same headings apply as for Wheat.

†These grades are only used as occasion arises on account of a considerable quantity of rusted or shrunken wheat.

# COMMERCIAL GRADES

	Min. Wgt. Per Bus.	VARIETY	STANDARD OF QUALITY		MAXIMUM LIMITS OF FOREIGN MATERIAL			
			Minimum Percentage by weight of Sound Kernels	SOUNDNESS	Foreign Material other than Wheat		Wheats of other Classes	
					Matter other than Cereal Grains	Total including Cereal Grains	Durum	Total including Durum
SOFT WHITE SPRING WHEAT								
1 C.W.	60	Lemhi or equal to Lemhi.	85	Well matured, practically free from damaged kernels.	Practically free	Practically free	1%	3%
2 C.W.	58	Any Soft White Spring of good milling quality.	65	Reasonably well matured, reasonably free from damaged kernels.	Practically free	About 1%	About 2%	5%
3 C.W.	57	Any Soft White Spring of fair milling quality.	35	Reasonably well matured, excluded from higher grades on account of lightly frosted, immature or other light damage.	Reasonably free	About 2%	4%	10%
4 C.W.	54	Any Soft White Spring.	..	Reasonably well matured, excluded from higher grades on account of frosted, immature or other damage.	Reasonably free	3%	5%	20%

commercial grades of Garnet Wheat which may be named and defined by the Western Committee on Grain Standards.

Garnet Wheat otherwise eligible for the grades of No. 1 C.W., No. 2 C.W., No. 3 C.W., or No. 4 C.W. Garnet but containing over twenty per cent of other varieties of Red Spring Wheat will be graded as No. 5 Wheat.

## **WINTER WHEAT**

All winter wheat below No. 4 Alberta Winter in quality may be graded in the lower grades of Red Spring Wheat, excluding the Special Grades, according to grade requirements.

## **AMBER DURUM**

No. 1 and No. 2 C.W. Amber Durum carrying over 10% and up to 15% of wheats of other classes will be graded as No. 3 C.W. Amber Durum. When carrying up to 20% will be graded No. 4 C.W. Amber Durum. When carrying over 20%, will be graded No. 5 Mixed Wheat.

## **OATS**

## **NOTES**

NOTE—Extra 3 C.W. has the same qualifications as 2 C.W. with the exception of weight per bushel, variety and degree of soundness as to maturity.

## **BARLEY**

**SOUND**—Shall mean practically free from frosted, free from sprouted or heated kernels, and shall be reasonably free from broken, peeled or otherwise damaged kernels.

## **SEEDS—BARLEY, OATS OR MIXED GRAIN**

All grades shall be practically free of seeds and other material removable through a sieve with  $4\frac{1}{2}/64$ " round perforations.

The percentage of tolerance of seeds specified in the grades shall refer to large seeds such as Wild Buckwheat.

"Any large seeds above tolerance in each grade to be treated as dockage, (e.g. 1 Feed Oats containing 4% large seeds, 2% allowed in grade and 2% would be considered as dockage along with any small seeds.)"

# STATUTORY GRADES

BARLEY	STANDARD OF QUALITY			MAXIMUM LIMITS OF FOREIGN MATERIAL				
	Min. Wgt. Per Bus.	VARIETY	Minimum Percentage of Variety or Type	SOUNDNESS	Seeds	Wild Oats	Other Grains	Total not to exceed
1 C.W. Six-Row	50	Any six-row variety equal for malting purposes to O.A.C. 21.	95	Sound, well matured, may contain slightly weather-stained kernels.	Practically free	About 1½%	About 1%	About 1%
2 C.W. Six-Row	48	Any six-row variety equal for malting purposes to O.A.C. 21.	90	Sound, reasonably well matured, may contain weather-stained, but not badly discoloured kernels.	Practically free	About 1½%	About 1½%	About 1½%
3 C.W. Six-Row	46	Any six-row variety of fair malting quality.	85	Practically sound, reasonably well matured, may contain weather-stained kernels.	About 1%	About 1%	3%	4%
1 C.W. Two-Row	51	Any two-row variety equal for pearling or malting purposes to Canadian Thorpe.	95	Sound, well matured, may contain slightly weather-stained kernels.	Practically free	About 1½%	About 1%	About 1%
2 C.W. Two-Row	49	Any two-row variety equal for pearling or malting purposes to Canadian Thorpe.	90	Sound, reasonably well matured, may contain weather-stained, but not badly discoloured kernels.	Practically free	About 1½%	About 1½%	About 1½%



# STATUTORY GRADES

BARLEY	STANDARD OF QUALITY				MAXIMUM LIMITS OF FOREIGN MATERIAL			
	Min. Wgt. Per Bus.	VARIETY	Minimum Percentage of Variety or Type	SOUNDNESS	Seeds	Wild Oats	Other Grains	Total not to exceed
No. 1 Feed	46	Any variety or type or combination of varieties or types.	..	Frosted, weather-stained or otherwise damaged, but sweet.	About 2%	4%	4%	4%
No. 2 Feed	43	Any variety or type or combination of varieties or types.	..	Frosted, weather-stained or otherwise damaged, but sweet; may contain 3% heat damage.	3%	10%	10%	10%
No. 3 Feed	..	Any variety or type or combination of varieties or types.	..	Excluded from the preceding grades on account of weight or mixtures, may contain 5% heat damage.	3%	20%	20%	20%

# COMMERCIAL GRADE

## STANDARD OF QUALITY

## MAXIMUM LIMITS OF FOREIGN MATERIAL

BARLEY

Min.  
Wgt.  
Per  
Bus.

VARIETY

Minimum  
Percentage  
of Variety  
or Type

SOUNDNESS

Seeds

Wild  
Oats

Other  
Grains

Total  
not to  
exceed

3 C.W. Two-Row

Any two-row variety  
of fair malting or  
pearling quality.

85

Practically sound; weather-stained;  
reasonably well matured.

About 1%

About 1%

3%

4%

## GRADING OF BARLEY

The following are the only varieties which qualify for the grades specified:

No. 1 C.W. Six-Row	{	O.A.C. 21, Mensury, Olli,
No. 2 C.W. Six-Row		Manchurian, Montcalm, Parkland, Gateway, Vega and Conquest.

No. 3 C.W. Six-Row	{	O.A.C. 21, Mensury, Olli,
		Manchurian, Montcalm, Gartons, Peatland, Parkland, Gateway and Vega.

No. 1 C.W. Two-Row	{	Canadian Thorpe, Hannchen,
No. 2 C.W. Two-Row		Charlottetown 80 and Betzes.

No. 3 C.W. Two-Row	{	Canadian Thorpe, Hannchen,
		Sanalta, Rex, Compana, Charlottetown 80, Palliser and Betzes.

No. 1 Feed	{	All varieties including Hull- ess and Black types are el- igible for feed grades.
No. 2 Feed		
No. 3 Feed		

### Thin and Plump Barley

Grade	Minimum Per Cent PLUMP	Maximum Per Cent THIN
No. 1 C.W. Six-Row	70	4
No. 2 C.W. Six-Row	70	4
No. 3 C.W. Six-Row	60	5
No. 1 C.W. Two-Row	70	4
No. 2 C.W. Two-Row	70	4
No. 3 C.W. Two-Row	60	5

**Note re Olli, Vega and Gateway Variety Barley**

On Country Shipments, that is in all cases except shipments ex terminal and licensed eastern elevators, Olli, Vega or Gateway barley shall contain not less than 50% of plump kernels and not more than 5% of thin kernels in order to qualify

for No. 3 C.W. Six-Row, providing that the sample contains at least 85% of these varieties.

**On Shipments ex Terminals and Licensed Eastern Terminals, Olli, Vega or Gateway barley shall contain not less than 55% of plump kernels and not more than 5% of thin kernels in order to qualify for No. 3 C.W. Six-Row.**

**Plump Barley** is barley which remains on top of a 6/64 inch x 3/4-inch slotted sieve.

**Thin Barley** is barley which passes through a 5/64-inch x 3/4-inch slotted sieve.

## **RYE**

All grades of Rye are required to be commercially free from seeds. No. 5 and No. 6 Buckwheat Sieves are used to remove seeds and broken rye.

## **SUNFLOWER SEED**

The name of the variety (Mennonite, Sunrise or other variety) shall be added to and form part of the grade name for the first three grades specified.

## **PEAS**

Peas of any type or variety may be graded according to the above definitions and the commonly accepted commercial name or description or variety of such peas shall form part of the grade name, providing, however, that the use of the variety name in certifying to a grade of peas shall not imply any guarantee of varietal purity.

# STATUTORY GRADES

OATS	Min. Wgt. Per Bus.	STANDARD OF QUALITY		MAXIMUM LIMITS OF FOREIGN MATERIAL			
		VARIETIES	SOUNDNESS	Seeds (see note)	Wild Oats	Other Grains	Total not to exceed
1 C.W.	38	95% White.	Well matured, practically free from damage.	Practically free	About 1%	Practically free	About 1%
2 C.W.	36	90% White.	Well matured, practically free from damage.	Practically free	About 2%	About 2%	3%
Extra 3 C.W.	40	Domestic Oats, any variety.	Reasonably well matured, practically free from damage.	Practically free	About 2%	About 2%	3%
3 C.W.	34	Domestic Oats, any variety.	Reasonably well matured, practically free from damage.	About 1%	4%	4%	6%
Extra 1 Feed	38	Domestic Oats, any variety.	Reasonably well matured, and sound except as to frost.	About 1%	About 2%	6%	6%
1 Feed	34	Domestic Oats, any variety.	Reasonably well matured, but frosted, stained, or otherwise damaged. May contain 2% heat damage.	About 2%	7%	12%	12%
2 Feed	28	Domestic Oats, any variety.	Frosted, immature, stained or otherwise damaged. May contain 3% heat damage.	3%	12%	22%	22%
3 Feed	..	Domestic Oats, any variety.	Light weight, immature, damaged. May contain 5% heat damage.	3%	25%	33%	33%
Mixed Feed	..	Wild Oats predominating.	Reasonably sound, practically free of Oat Hulls.	About 4% knuckles, wheat heads or seeds	....	49%	49%

OFF-GRADE No. 2 MIXED FEED OATS—No. 2 Mixed Feed Oats shall be composed of not less than 50% of wild oats and containing admixtures that cause exclusion from the grade of Mixed Feed Oats.

# STATUTORY GRADES

RYE	Min. Wgt. Per Bus.	SOUNDNESS	Percentage of Ergot after dockage removed	Matter other than Cereal Grains	Cereal Grains other than Wheat	Total Foreign Material Including Wheat
1 C.W.	58	Sound	Free	Practically free	Practically free	Practically free
2 C.W.	56	Sound.	Practically free.	About 1/2%	About 1 1/3%	About 2%
3 C.W.	54	Reasonably sound. Slightly damaged.	Not more than 1/3 of 1%.	About 1%	3%	5%
4 C.W.	..	Damaged with not more than about 5% heat damage.	Not more than 1/3 of 1%	About 2%	7%	10%
C.W. Ergoty Rye	..	Excluded from preceding grades on account of ergot.	Over 1/3 of 1%.	About 2%	7%	10%
C.W. Ergoty and other Grains	..	Excluded from preceding grades on account of admixture of other grains, Rye predominating.	Over 1/3 of 1%.	About 2%	...	...

## STANDARD OF QUALITY

FLAX SEED	Min Wgt. Per Bus.	SOUNDNESS	STANDARD OF CLEANNESS
1 C.W.	51	Matured and sweet. May contain 12 1/2% damaged seeds, including broken seeds.	Clean, commercially pure seed.
2 C.W.	50	Matured and sweet. May contain 25% damaged seeds, including broken seeds.	Clean, commercially pure seed.
3 C.W.	47	May contain 5% heat damage.	Clean, commercially pure seed.
4 C.W.	44	May contain 10% heat damage.	Clean, commercially pure seed.

Flax and Broken Grain — Shall be composed of flax mixed with broken grain of any description that cannot be classified under any established grade. May contain not more than 1% other material.

Flaxseed weighing less than 44 lbs. per bushel will grade "Sample C.W. Flaxseed a/c light weight."

Inseparable Seeds (other than false flax and/or broken grain — See page 41.



# **STATUTORY GRADES**

MIXED GRAIN	COMPOSITION	PREDOMINANT KIND OF GRAIN	STANDARD OF QUALITY
1 C.W. Mixed Grain	Wheat and other cereal grains and/or Wild Oats.	Wheat	Excluded from other established grades on account of mixture of other cereal grains. Reasonably clean.
4 C.W. Mixed Grain	Rye and other cereal grains and/or Wild Oats.	Rye	Excluded from other established grades on account of mixture of other cereal grains. Reasonably clean.
3 C.W. Mixed Grain	Barley and other cereal grains and/or Wild Oats.	Barley	Excluded from other established grades on account of mixture of other cereal grains and Wild Oats. Reasonably clean.
2 C.W. Mixed Grain	Oats and other cereal grains and/or Wild Oats.	Oats	Excluded from other established grades on account of mixture of other cereal grains and wild oats; reasonably clean.

**OFF-GRADE SAMPLE FEED GRAIN** — "Sample Feed Grain" shall be composed of mixtures containing cereal grains and other material that, on account of being so mixed, do not qualify for any statutory, commercial or other off grade. Any class of cereal grain may predominate and may be wholly or partially hulled and/or hullless types.

**COMMERCIAL GRADE** — No. 5 Canada Western, mixtures of wheat, oats, barley, rye and/or wild oats that do not qualify for any statutory grade of mixed grain on account of the predominating grain comprising less than fifty percent (50%) of the whole.  
Wild oats not in excess of forty-nine percent (49%).

# STATUTORY GRADES

STANDARD OF QUALITY					
SUNFLOWER SEED	Min. Wgt. Per Bus.	MINIMUM PERCENTAGE VARIETY OF TYPE	SOUNDNESS	Maximum Percentage of Cracked and Hulled Seed	STANDARD OF CLEANNES
1 C.W.	24	85	Well matured, sound, sweet, and uniform in size. Reasonably well matured; sweet; may contain frosted and weather-damaged seed. May be slightly rancid and/or slightly musty. Well matured; sound; sweet. Reasonably well matured; sweet; may contain frosted and weather-damaged seed. May be slightly rancid and/or slightly musty. Any sunflower seed which does not meet the requirements for any of the other established grades.	2%	Commercially clean seed.
2 C.W.	21	60		5%	Commercially clean seed.
3 C.W.	21	60		10%	Commercially clean seed.
1 Mixed C.W.	24	Mixed varieties or types.		2%	Commercially clean seed.
2 Mixed C.W.	21	Mixed varieties or types.		5%	Commercially clean seed.
3 Mixed C.W.	21	Mixed varieties or types.		10%	Commercially clean seed.
Sample C.W.	..	Any variety, mixture of varieties or types.		...	

STANDARD OF QUALITY					
BUCKWHEAT	Min. Wgt. Per Bus.	VARIETY	SOUNDNESS	Maximum Limits of Foreign Material	
1 C.W.	50	Any variety equal to Japanese.	Sound, cool, and sweet.	Matter other than Cereal Grains	Total not to exceed
2 C.W.	48	Any variety equal to Japanese.	Reasonably sound, cool, and sweet.	Practically free	Reasonably free
3 C.W.	45	Any variety equal to Japanese.	Reasonably free from damage, cool, and sweet.	Practically free	About 1%
4 C.W.	42	Any variety.	Excluded from preceding grade on account of damage. May have a ground or grassy smell but not musty.	About 1%	3%
				About 2%	5%
Sample C.W.	Any buckwheat which does not meet the requirements for any of the other established grades				

## CORN

**FLINT CORN**—Flint corn shall be corn of any class which consists of 95 per cent of flint corn, and shall be graded according to grade requirements of the standards applicable to such corn if it were not flint corn, and the word "Flint" shall be added to the grade name following the words "Yellow" or "White" or "Mixed".

**FLINT AND DENT CORN**—Shall be corn of any class which consists of a mixture of the "Flint and Dent" varieties and which contains more than 5 per cent but less than 95 per cent of corn of any of the "Flint" varieties. It shall be graded according to the grade requirements of the Standard applicable to such corn if it were not "Flint and Dent Corn" and the words "Flint and Dent" shall be added to the grade name following the words "Yellow" or "White" or "Mixed."

**COLOURS**—A slight tinge of red on kernels otherwise yellow shall be classified as Yellow corn. A slight tinge of light straw color or of pink on kernels otherwise white shall be classified as White Corn. White capped yellow kernels shall be classified as Mixed Corn.

**CRACKED CORN AND FOREIGN MATERIAL**—Shall be kernels and pieces of kernels of corn and all matter other than corn which will pass through a No. 12 sieve, and all matter other than corn remaining on such sieve after screening.

**NOTE—No. 12 SIEVE**—A Metal Sieve perforated with round holes  $12/64$ " in diameter.

# STATUTORY GRADES

CORN	STANDARD OF QUALITY					Maximum Limits of Foreign Material			
	Min. Wgt. Per Bus.	VARIETY OR TYPE	Minimum Percentage of variety or Type	SOUNDNESS	Damaged Corn		Cracked Kernels and Other Foreign Material		
					Heat Damaged	Total Damaged			
1 C.W. Yellow	56	Yellow—Dent or semi-dent equal to Falconer	95	Cool and sweet and uniform in size	About 0.1 %	3 %	About 2 %		
2 C.W. Yellow	54	Yellow—Dent or semi-dent equal to Falconer	95	Cool and sweet	About 0.2 %	5 %	3 %		
3 C.W. Yellow	52	Yellow—Dent or semi-dent equal to Falconer	95	Cool and sweet	About 0.5 %	7 %	5 %		
4 C.W. Yellow	50	Yellow—Dent or semi-dent equal to Falconer	95	Cool and sweet	About 1.0 %	10 %	7 %		
5 C.W. Yellow	47	Yellow—Dent or semi-dent equal to Falconer	95	Cool, slight odour but not sour or musty	3.0 %	15 %	12 %		
1 C.W. White	56	White	98	Cool and sweet and uniform in size	About 0.1 %	3 %	About 2 %		
2 C.W. White	54	White	98	Cool and sweet	About 0.2 %	5 %	3 %		
3 C.W. White	52	White	98	Cool and sweet	About 0.5 %	7 %	5 %		
4 C.W. White	50	White	98	Cool and sweet	About 1.0 %	10 %	7 %		
5 C.W. White	47	White	98	Cool, slight odour but not sour or musty	3.0 %	15 %	12 %		
1 C.W. Mixed	56	Mixed as to colours		Cool and sweet and uniform in size	About 0.1 %	3 %	About 2 %		
2 C.W. Mixed	54	Mixed as to colours		Cool and sweet	About 0.2 %	5 %	3 %		
3 C.W. Mixed	52	Mixed as to colours		Cool and sweet	About 0.5 %	7 %	5 %		
4 C.W. Mixed	50	Mixed as to colours		Cool and sweet	About 1.0 %	10 %	7 %		
5 C.W. Mixed	47	Mixed as to colours		Cool, slight odour but not sour or musty	3.0 %	15 %	12 %		

Sample C.W. | Any corn which does not meet the requirements for any of the other established grades.

# STATUTORY GRADES

## MAXIMUM LIMITS OF:

SOYBEANS	Minimum Weight per Measured Bushel in Pounds	STANDARD OF QUALITY	MAXIMUM LIMITS OF:					
			Splits	Other Colours or Bi-coloured (See Note)	Heat-damaged and/or Mouldy Kernels of Soybeans and of Other Grains	Total Damaged Kernels	Foreign Material other than Grain	Foreign Material other than Dockage
No. 1 Canada Soybeans	58	Cool, of natural odor, well screened, of good natural colour.	10%	2%	Free	2%	About 0. 1%	1%
No. 2 Canada Soybeans	56	Cool, of natural odor, slightly stained.	15%	3%	Practically free	3%	About 0. 3%	2%
No. 3 Canada Soybeans	54	Cool, of natural odor, may be stained but not badly ground-damaged.	20%	5%	About 1%	5%	About 0. 5%	3%
No. 4 Canada Soybeans	51	Cool, may be badly stained or ground-damaged, may be slightly immature and frosted.	30%	10%	About 3%	8%	About 2%	5%
No. 5 Canada Soybeans	48	Cool, may be badly stained or ground-damaged, immature and frosted.	49%	15%	About 5%	15%	About 3%	8%

Sample Canada Soybeans | Shall be soybeans which do not meet the requirements of any of the grades from No. 1 to No. 5 inclusive, or which are musty, sour or heating or hot, or which have any commercially objectionable foreign odor, or which are otherwise of distinctly low quality.

NOTE—The maximum limits here given for “other colours” shall not apply to the grading of mixed soybeans.

## MAXIMUM LIMITS OF FOREIGN MATERIAL

PEAS (RECLEANED OR PROCESSED)	STANDARD OF QUALITY			MAXIMUM LIMITS OF FOREIGN MATERIAL						
	Min. Wgt. Per Bus.	Minimum Percentage of Variety or Type	Colour	Peas of Other Colour	Shrivelled	Cracked Seed Coats	Splits	Insect Damaged	Other Foreign Material	Total, Including Splits, Insect Damage and Other Foreign Material
1 C.W.	62	95	Good natural colour	About 0.5%	About 1%	2%	About 0.5%	About 0.5%	Trace	About 1.5%
2 C.W.	60	90	Slightly off colour	About 1%	3%	4%	About 1%	About 0.5%	Trace	3%
3 C.W.	58	85	Fair colour	2%	5%	8%	About 1.5%	About 1.5%	About 0.5%	5%
4 C.W.	—	—	—	3%	7%	10%	4%	4%	About 1%	10%

Sample C.W. Any peas which do not meet the requirements of other established grades.

## COMMERCIAL GRADES

Extra 4 C.W.	58	85	2%	5%	8%	5%	About 1.5%	About 0.5%	9%
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# COMMERCIAL GRADES OF WESTERN BEANS ESTABLISHED BY THE COMMITTEE OF WESTERN GRAIN STANDARDS, OCTOBER 20, 1960.

BEANS	STANDARD OF QUALITY	FOREIGN MATERIAL		MAXIMUM LIMITS OF:		
		Stones, shale or similar material	Total foreign material	Contrasting classes of beans	Total including damage, foreign material and contrasting classes	Total including splits, damage, foreign material and contrasting classes
Extra No. 1 Canada Western Pea Beans.	Well screened and picked, uniform in size, of good natural colour.	Free	0.05%	1%	1%	1%
No. 1 Canada Western Pea Beans.	Well screened and picked, of good natural colour.	0.05%	0.1%	1½%	1½%	3%
No. 2 Canada Western Pea Beans.	Reasonably well screened and picked, of reasonably good colour.	0.1%	0.2%	3%	3%	5%
No. 3 Canada Western Pea Beans.	Fairly well screened and picked, slightly off colour.	0.2%	0.5%	5%	5%	10%
No. 4 Canada Western Pea Beans.	Off colour.	0.5%	1%	8½%	8½%	15%
Sample Canada Western Pea Beans.	Any beans which do not meet the requirements of any of the other established grades.	---	---	---	---	---

Beans of any type or variety other than Pea Beans may be graded according to the above definitions and under the same grade names, except that the commonly accepted commercial name or description or variety of such beans shall form part of the grade name in place of the name "Pea Beans" in the above grade names; provided however that the use of a variety name in certifying to a grade of beans shall not imply any guarantee of varietal purity.

In such grades of beans of a type or variety other than Pea Beans in addition to the prescribed maximum limits of other classes of beans that blend, there shall be permitted up to five per cent (5%) in No. 1, ten per cent (10%) in No. 2, twenty per cent (20%) in No. 3, and thirty per cent (30%) in No. 4.

## PERCENTAGES OF MOISTURE

The limit for straight grade.....	18.0%
Tough.....	18.1% to 20.0%
Damp.....	Over 20.0%



# STATUTORY GRADES

MIXED WHEAT	COMPOSITION	Min. Wgt. Per Bus.	STANDARD OF QUALITY
1 C.W.	Mixtures of wheats of the Red Spring, White Spring and Winter Wheat classes, excluded from grades established for these classes on account of being so mixed—any one of such classes may predominate.	57	Reasonably well matured, may contain lightly frosted immature or other light damage; may contain up to five per cent Durum Wheats; reasonably clean.
2 C.W.	Mixtures of wheats of the Red Spring, White Spring and Winter Wheat classes, excluded from grades established for these classes on account of being so mixed—any one of such classes may predominate.	51	Excluded from the grade of No. 1 C.W. on account of immature and damaged kernels, may contain up to ten per cent of Durum Wheats; reasonably clean.
3 C.W.	Mixtures of wheats of the Red Spring or White Spring or Winter Wheat classes and wheats of the Durum Wheat classes excluded from grades established for the classes of Red Spring, White Spring and Winter Wheats on account of being so mixed; Spring and Winter Wheat classes predominating.	57	Reasonably well matured; may contain lightly frosted, immature or other light damage; may contain up to ten per cent of Red Durum Wheat; reasonably clean.
4 C.W.	Mixtures of wheats of the Red Spring or White Spring or Winter Wheat classes and wheats of the Durum classes excluded from grades established for the classes of Red Spring, White Spring and Winter Wheats on account of being so mixed. Spring and Winter classes predominating.	51	Excluded from the grade of No. 3 C.W. on account of immature and damaged kernels; may contain up to ten per cent of Red Durum Wheat; reasonably clean.
5 C.W.	Mixtures of Amber Durum Wheat and wheats of the Red Spring, White Spring or Winter Wheat classes excluded from grades established for the class of Amber Durum Wheat on account of being so mixed; Amber Durum Wheat predominating.	58	Reasonably well matured; may contain lightly frosted, immature or other light damage, may contain up to ten per cent of Red Durum Wheat; reasonably clean.
6 C.W.	Mixtures of Amber Durum Wheat and wheats of the Red Spring, White Spring or Winter Wheat classes excluded from grades established for the class of Amber Durum Wheat on account of being so mixed; Amber Durum Wheat predominating.	51	Excluded from grade No. 5 C.W. on account of immature and damaged kernels, may contain up to ten per cent of Red Durum Wheat; reasonably clean.

Mixed Wheat weighing less than 51 lbs. per bushel will grade "Feed Wheat".

# STATUTORY GRADES

DOMESTIC MUSTARD SEED	STANDARD OF QUALITY				DEGREE OF SOUNDNESS	STANDARD OF CLEANNESSE (See Note)
	Minimum weight per measured bushel in pounds		CLASS (See Note)			
	Yellow Class	Brown, Oriental and Mixed Classes				
Extra No. 1 Canada Western Yellow	58		Not less than 99.95% yellow.	Well matured; sweet. Of good natural colour. May contain not over 1% damaged seeds, including not over 0.01% heated.	May contain not more than 0.01% of other seeds that are conspicuous and that are not readily separable from yellow mustard seed. Shall be free from conspicuous seeds that are distinctly detri- mental to quality, such as cow cockle.	
No. 1 Canada Western	56	55	Not less than 99.5% of one class.	Reasonably well matured; sweet. Of good natural colour. May contain not over 1.5% damaged seeds, including not over 0.1% heated.	May contain not more than 0.3% of other seeds that are conspicuous and that are not readily separable from mustard seed, including not over 0.1% of conspicuous seeds that are distinctly detrimental to quality, such as cow cockle.	
No. 2 Canada Western	54	54	Not less than 98% of one class.	Fairly well matured; sweet. May contain not over 3% damaged seeds, including not over 0.2% heated.	May contain not more than 0.5% of other seeds that are conspicuous and that are not readily separable from mustard seed, including not over 0.2% of conspicuous seeds that are distinctly detrimental to quality, such as cow cockle.	
No. 3 Canada Western	52	52	Not less than 95% of one class.	May contain not over 5% damaged seeds, including not over 0.5% heated. May have the natural odour associated with low quality seed, but shall not be distinctly sour, musty, rancid, nor have any odour that would indi- cate serious deterioration or contamination.	May contain not more than 0.7% of other seeds that are conspicuous and that are not readily separable from mustard seed, including not over 0.3% of conspicuous seeds that are distinctly detrimental to quality, such as cow cockle.	

The use of the name of a class of Mustard Seed in certifying to a grade shall not imply any guarantee as to the varietal purity of that class.

Assignment of mustard seed to any of the above grades shall not imply any guarantee with respect to content of other seeds that blend with mustard seed.

## RAPESEED

NO. 1 CANADA RAPESEED—Reasonably sound: cool and sweet, may contain not over 3% damaged seeds, including not over 0.1% heated. Of good natural colour. Minimum weight per measured bushel, 52 lbs. May contain not more than 1% conspicuous seeds, to be assessed as dockage.

NO. 2 CANADA RAPESEED—Cool and sweet: may contain not over 10% damaged seeds, including not over 0.2% heated. Minimum weight per measured bushel, 50 lbs. May contain not more than 1.5% conspicuous seeds, to be assessed as dockage.

NO. 3 CANADA RAPESEED — May contain not over 20% damaged seeds, including not over 0.5% heated. May have the natural odour associated with low quality seed, but shall not be distinctly sour, musty, rancid, nor have any odour that would indicate serious deterioration or contamination. Minimum weight per measured bushel, 48 lbs. May contain not more than 2% conspicuous seeds, to be assessed as dockage.

NOTE. — Assignment of rapeseed to any of the above grades shall not imply any guarantee with respect to content of other seeds that blend with rapeseed.

The percentage of "other seeds that are conspicuous and that are not readily separable" shall include weed seeds that do not blend with rapeseed and whole or broken kernels of other grains, when these are not removable by means of appropriate sieves and other cleaning devices.

## GRADES OF SCREENINGS

NO. 1 FEED SCREENINGS shall be grain screenings; shall be cool and sweet; shall contain (i) not less than thirty-five per cent broken or shrunken grain or both, (ii) not more than two per cent hare's ear mustard, (iii) not more than one per cent hulls, (iv) not more than three per cent in the aggregate of small weed seeds that can pass through a  $4\frac{1}{2}$ /64-inch round-hole sieve, chaff, hulls and dust, (v) not more than six per cent in the aggregate of small weed seeds that can pass through a  $4\frac{1}{2}$ /64-inch round-hole sieve, chaff hulls, dust, wild and domestic mustard seed, ball mustard and rapeseed, (vi) not more than eight per cent wild oats, and (vii) not more than one per cent of

the seeds designated as injurious in the Feeds Regulations; and may contain wild buckwheat and not more than ten per cent of other large seeds not designated in this section.

**NO. 2 FEED SCREENINGS** shall be grain screenings; shall be cool and sweet; shall contain, (i) not more than two per cent hare's ear mustard or wild mustard, (ii) not more than one per cent hulls, (iii) not more than three per cent in the aggregate of small weed seeds that can pass through a  $4\frac{1}{2}/64$ -inch round-hole sieve, chaff, hulls and dust, (iv) not more than ten per cent in the aggregate of small weed seeds that can pass through a  $4\frac{1}{2}/64$ -inch round-hole sieve, chaff, hulls, dust, wild and domestic mustard seed, ball mustard and rapeseed, (v) not more than forty-nine per cent wild oats, and (vi) not more than one per cent of the seeds designated as injurious in the Feeds Regulations, except that there may be a total of two per cent when the excess over one per cent is hare's ear mustard or wild mustard (*Brassica Kaber*); and may contain wheat scorings.

**Provided that**

(a) No. 1 Feed Screenings and No. 2 Feed Screenings shall contain not more than one per cent (1%) seeds or material designated under the Feeding Stuffs Act as injurious to the health of livestock or poultry.

(b) Small weed seeds shall be those capable of passing through a  $4\frac{1}{2}/64$  inch round perforation.

**UNCLEANED SCREENINGS** shall be grain screenings excluded from the preceding grades or classes because of the content of weed seeds, chaff or dust but containing at least thirty-five per cent (35%) of material which, if separated, would classify as No. 1 Feed Screenings.

**REFUSE SCREENINGS** shall include all classes of grain screenings excluded from the preceding grades because of the content of weed seeds, chaff or dust.

**Kind or Condition**

The inspector may include in the grade name notations as to the kind and/or condition of screenings. The "kind" shall refer to screenings of a type that is normally derived from the cleaning of

a particular kind of grain, such as from flaxseed. The "condition" shall refer to heated or other type of deterioration, or objectionable odour, when of such degree as to materially affect the quality of the screenings.

## OFF-GRADES

### SPROUTED GRAIN

In any of the different grains, should the kernels have long sprouts, the percentage of sprouted kernels for that grade will have to be cut down, as there is a DIFFERENCE between a SPRUNG KERNEL and a kernel that contains a LONG SPROUT.

### SPROUTS IN WHEAT

#### Sprouts

Sprouts (except in grades of Mixed Wheat—see below)

No. 1 Hard and No. 1 — free

No. 2 — maximum  $1\frac{1}{2}\%$

No. 3 — maximum 5%

No. 4, No. 4 Special, No. 5, No. 5 Special — maximum 8%

No. 6, No. 6 Special — maximum 12%

Basic Grade	% of Sprouts		Grade
No. 1	up to $1\frac{1}{2}\%$		No. 2
No. 1 or 2	over $1\frac{1}{2}\%$	up to 5%	No. 3
No. 1 or 2	over 5%	up to 35%	Rejected No. 2 Account Sprouted
No. 3	over 5%	up to 8%	No. 4
No. 3	over 8%	up to 35%	Rejected No. 3 Account Sprouted
No. 4	over 8%	up to 35%	Rejected No. 4 Account Sprouted
No. 5	over 8%	up to 12%	No. 6
No. 5	over 12%	up to 35%	Rejected No. 5 Account Sprouted
No. 6	over 12%	up to 35%	Rejected No. 6 Account Sprouted

Over 35% grade Feed Wheat

#### Mixed Grain

Apply the same percentage as allowed in the lowest grade of the predominate kind of grain.

No. 1 C.W.—Wheat and Other Grain

No. 2 C.W.—Rye and Other Cereals.

No. 3 C.W.—Barley and Other Cereals.

No. 4 C.W.—Oats and Other Cereals.

#### Sprouts in Mixed Wheat

No. 1 C.W., No. 3 C.W., or No. 5 C.W. — maximum 5%

No. 2 C.W., No. 4 C.W., or No. 6 C.W. — maximum 12%

Basic Grade	% of Sprouts		Grade
No. 1 C.W. over 5%	up to 8%		No. 2 C.W.
No. 1 C.W. over 8%	up to 35%		Rejected No. 1 C.W. Account Sprouted

No. 2 C.W. over 12% up to 35%	Rejected No. 2 C.W. Account Sprouted
No. 3 C.W. over 5% up to 8%	No. 4 C.W.
No. 3 C.W. over 8% up to 35%	Rejected No. 3 C.W. Account Sprouted
No. 4 C.W. over 12% up to 35%	Rejected No. 4 C.W. Account Sprouted
No. 5 C.W. over 5% up to 8%	No. 6 C.W.
No. 5 C.W. over 8% up to 35%	Rejected No. 5 C.W. Account Sprouted
No. 6 C.W. over 12% up to 35%	Rejected No. 6 C.W. Account Sprouted

Over 35% grade Feed Wheat

NOTE—When the above do not appear to be appropriate, e.g. basic grade No. 2 Northern, 45% sprouts, hold for grade; send sample to the Chief Inspector.

### SPROUTED OATS

- 1 C.W.—Free of Sprouts.
- 2 C.W.—Free of Sprouts.
- Extra 3 C.W.—Free of Sprouts.
- 3 C.W.—Up to 2 per cent sprouts; over 2% up to 5% grade Extra 1 Feed if otherwise eligible.
- Extra 1 Feed—Will carry up to 5 per cent sprouts. over 5% up to 15% grade No. 1 Feed; over 15%, grade No. 2 Feed or No. 3 Feed.
- 1 Feed—Will carry up to 15 per cent sprouts. Over 15 per cent will grade 2 Feed if 28 lbs. per bushel. Less than 28 lbs. will be classed as 3 Feed.

### SPROUTED BARLEY

- 1 C.W. Six-Row and 1 C.W. Two-Row—Up to 0.05 per cent.
- 2 C.W. Six-Row and 2 C.W. Two-Row—Up to 0.1 per cent.
- 3 C.W. Six-Row and 3 C.W. Two-Row — Up to 3 per cent.
- 1 Feed—Up to 10 per cent.
- 2 Feed—Up to 20 per cent.
- 3 Feed—No limit.

### SPROUTED RYE

- 1 C.W.—Practically free from sprouts.
- 2 C.W.—May contain up to 2 per cent.
- 3 C.W.—May contain up to 7 per cent.
- 4 C.W.—May contain over 7 per cent to 20 per cent.

Over 20 per cent grade rye, sample C.W. account SPROUTED.

## TOUGH AND DAMP GRAIN

All grain that has an excessive moisture, being tough or damp or otherwise unfit for warehousing, shall be classed as "Tough" or "Damp" to the grade to which it otherwise belongs, in accordance with the percentages set out on the following table:

### PERCENTAGE OF MOISTURE ALLOWED IN STRAIGHT, TOUGH OR DAMP GRAIN

	Straight Grade	Tough	Damp
Wheat .....	Up to 14.5 %	14.6 % to 17 %	Over 17 %
Oats .....	Up to 14.0 %	14.1 % to 17 %	Over 17 %
Barley .....	Up to 14.8 %	14.9 % to 17 %	Over 17 %
Rye .....	Up to 14.0 %	14.1 % to 17 %	Over 17 %
Flax .....	Up to 10.5 %	10.6 % to 13.5 %	Over 13.5 %
Rapeseed ..	Up to 10.5 %	10.6 % to 12.5 %	Over 12.5 %
Buckwh't ..	Up to 14.8 %	14.9 % to 17 %	Over 17 %
Peas .....	Up to 16.0 %	16.1 % to 18 %	Over 18 %
Beans .....	Up to 18.0 %	18.1 % to 20.0 %	Over 20.0 %
Mustard ..	Up to 11.0 %	11.1 % to 16 %	Over 16 %

Mixed Grain—Moisture levels based on content of predominant grain.

Grade	Corn	Soybeans	Sunflower Seed & Safflower Seed
ExtraDry	14% or less		
Straight	14.1% to 15.5%	14% or less	9.5% or less
Tough	15.6% to 17.5%	14.1% to 16%	9.6% to 13.5%
Damp	17.6% to 21.0%	16.1% to 18%	13.6% to 17%
Moist	21.1% to 25.0%	18.1% to 20%	17.1% to 22%
Wet	Over 25%	Over 20%	Over 22%

## CLASSIFICATION FOR OFF GRADE GRAIN SMUTTY GRAIN

All wheat or rye that has an unmistakable odor of smut, or which contains smut spores, balls, or portions of balls of smut, shall be classed as "Smutty" to the grade according to the grade requirements of such grain. All other grain will be degraded according to the amount of Smut contained in the Samples.

## CONDITIONED GRAIN

**Dried** — All classes of western wheat found to have been damaged in drying shall be graded as **Rejected to grade Dried** when these qualify for basic grades of No. 5 or higher grade. Lower grades of wheat and any other western grain that has, in the judgment of the Grain Inspector,

suffered damage in artificial drying, shall be graded according to the grade requirements of the statutory or commercial grade applicable to such grain if it had not been damaged in drying, except that there shall be added to and made part of the grade name the word "Dried".

**Scoured or Washed Wheat**—Wheat that has been subjected to scouring or washing may be graded as "Scoured" or "Washed" to the grade to which it belongs, or as a Straight grade when it complies in the judgment of the Inspector with the established Standard Sample for such grade.

### REJECTED

(a) Any western wheat or rye containing excessive admixture, but not in excess of 10% of other cereal grains or foreign material that cannot be readily removed, except stones or like material, shall be graded according to the requirements of the grade for which it would otherwise qualify, but there shall be added to and made part of the grade name the words "Rejected—Account Admixture."

(b) Any western oats or barley containing excessive admixture, but not in excess of 10%, of foreign material that cannot be readily removed, except other cereal grains, or stones or like material, shall be graded "Rejected—Account Admixture."

(c) Any western flaxseed or rapeseed or tame mustard seed containing excessive admixture, but not over 2½%, of shrunken or broken grain or weed seeds that are not readily removable, shall be graded according to the requirements of the grade for which it would otherwise qualify, but there shall be added to and made part of the grade name the words "Rejected—Account Admixture."

(d) Any western grain containing excessive stones or like material, but not in excess of 2½% shall be graded according to the requirements of the grade for which it would otherwise qualify, but there shall be added to and made part of the grade name the words "Rejected—Account Stones."

(e) Any western wheat or rye that has substantially deteriorated, such as from excessive mildewed, or musty condition; or that contains (a) fire-burnt grain but not in excess of 8%; (b) excessive heated grain but not over 10%; (c) a commercially objectionable odour except from smut, or (d) for-



sign material that cannot be readily removed except as otherwise specified herein, shall be graded according to the requirements of the grade for which it would otherwise qualify, but there shall be added to and made part of the grade name the word "Rejected" and words to indicate the reason.

(f) Any western oats or barley that has substantially deteriorated, such as from excessive mildewed, or musty condition; or that contains (a) fire-burnt grain but not over 8%; (b) excessive heated grain but not over 10%, or (c) a commercially objectionable odour, shall be graded "Rejected" with the addition of, and made part of the grade name, words to indicate the damage or condition.

### **SAMPLE**

(a) Any western grain containing in excess of  $2\frac{1}{2}\%$  of stones, or containing gravel, cinders and/or like material that is normally contained in grain salvaged from wreck in transit, shall be graded "Sample Salvage".

(b) Any western grain that does not qualify for a statutory or commercial grade or an off grade named and defined herein shall be graded "Sample" with the addition of, and made part of such grade name, words to indicate the damage or admixtures.

### **NO. 2 MIXED FEED OATS**

A mixture of western wild oats and other materials that does not qualify for the statutory grade Mixed Feed Oats because of being so mixed shall, if it has the qualities set out below, be graded "No. 2 Mixed Feed Oats".

(a) shall contain at least fifty per cent wild oats;

(b) shall be practically free of all material that passes through a  $4\frac{1}{2}$ -64-inch round-hole sieve; and

(c) shall contain in whole, broken, hulled or hull-less form not more than

(i) five per cent heated kernels,

(ii) five per cent wild buckwheat,

(iii) ten per cent wheat heads,

(iv) five per cent knuckles, straw and chaff,

(v) ten per cent in the aggregate of wild buckwheat, wheat heads, knuckles, straw and chaff,

(vi) two and a half per cent flaxseed,

(vii) one-tenth of one per cent stones, and

(viii) one-third of one per cent ergot.

## SAMPLE FEED GRAIN

Sample Feed Grain shall be composed of mixtures containing cereal grains and other material that, on account of being so mixed, do not qualify for any statutory, commercial or other off grade. Any class of cereal grain may predominate and may be wholly or partially hulled and/or hullless types.

Sample Feed Grain may contain up to the following maximum limits: broken grain, not in excess of fifty per cent (50%); ergot, not in excess of one-third of one per cent (0.33%); heated kernels, not in excess of five per cent (5%); wild oats, not in excess of fifty per cent (50%); large weed seeds, not in excess of three per cent (3%); unthreshed wheat heads, not in excess of ten per cent (10%); knuckles and straw, not in excess of four per cent (4%); total large weed seeds, unthreshed wheat heads, knuckles and straw, not in excess of ten per cent (10%); total wild oats, large weed seeds, unthreshed wheat heads, knuckles and straw, not in excess of fifty per cent (50%); stones, not in excess of one-tenth of one per cent (0.1%); flaxseed, not in excess of two and one-half per cent (2½%). It shall be practically free of all material that passes through the 4½/64th round hole sieve.

**Sample Grade**—All wheat, oats, barley, flax, rye and buckwheat that contain over 10 per cent of heated or over 8 per cent of fireburnt shall be graded "Sample" wheat, oats, barley, flax, rye or buckwheat, with notations as to cause and condition.

## MACHINE SEPARATION FOR CEREAL GRAINS

Dockage may be placed on the bulk of any grain in order that it shall be of the grade assigned, and if such dockage contains a certain proportion of cereal grain, separations shall be made in accordance with the following table of percentages, the term "M.S." (Machine Separation) being used to designate such separation to be made. NOTE. The term "M.S." (Machine Separation) officially replaces the old term "C.C." (Clean till clean).

### M.S. FOR FLAX

All grain containing 2½% or over of flaxseed or 3% or over of "Flax and Broken Grain" is graded M.S.

**Exception** — "Sample (grain) Fireburnt" or "Sample (grain) Salvage" is not graded M.S. for flaxseed.

## **M.S. FOR OATS**

All wheat, rye, flax or rapeseed containing  $2\frac{1}{2}$  per cent of oats and over is graded M.S.

## **M.S. FOR MIXED FEED OATS (WILD OATS)**

All wheat containing  $3\frac{1}{2}$  per cent of Mixed Feed Oats (Wild Oats) or over is graded M.S.

## **M.S. FOR BROKEN WHEAT (OR BROKEN RYE)**

All wheat or rye containing 5 per cent or over of broken grains and practically free from seeds and other foreign matter (about  $\frac{1}{4}$  of 1 per cent) is graded M.S. for broken wheat or broken rye.

## **FLAX/RAPESEED M.S.**

Flax or Rapeseed containing  $2\frac{1}{2}\%$  and over of cereal grain or mixtures of cereal grains that can be separated by approved equipment for cleaning of samples shall be graded M.S. Wild oats in flax or rapeseed is classed as dockage.

## **EXCESS SEEDS**

Dockage will be placed on all grains to remove EXCESS seeds ABOVE grade allowances.

## **GRADING FACTORS**

The following are some of the grading factors supplementary to the definitions of grades explained elsewhere in this book.

### **GRASS GREEN KERNELS**

In some crop years there is a quantity of wheat containing grass green kernels. The following percentages may be used as a guide in grading samples of wheat of this character. These percentages shall apply only to grass green kernels that remain in samples after removal of dockage.

1 Hard—Free

1 Northern— 0.2%

2 Northern— 1.0% if balance 1 Nor.

2 Northern— 0.2% if balance is about minimum  
2 Nor.

3 Northern— 2.5% if balance is 1 Nor. or 2 Nor.

3 Northern— 1.0% if balance is about minimum  
3 Nor.

4 Northern— 5.0% if balance is 3 Nor. or higher

4 Northern— 2.5% if balance is about minimum  
4 Nor.

5 Wheat—14.0% if balance 4 Nor. or higher (or  
4 C.W. Garnet)

5 Wheat— 5.0% if balance is about minimum No. 5

6 Wheat—36.0% if balance No. 5 Wheat or higher

6 Wheat—14.0% if balance is about minimum No. 6

The general quality of samples must be considered when applying these tolerances. For example, a sample that is average for the grade of No. 2 Northern, apart from grass green kernels, may contain about 0.6% grass green kernels.

Before grading samples as Feed, variations in quality of the sample should be considered. Samples containing somewhat more than 36% of grass green kernels, but otherwise of good quality, should be carefully studied for overall quality.

In the course of determining the dockage any very thin shrunken green kernels that pass through the No. 10 sieve will be considered as dockage.

#### Limits of Shrunken and Broken Kernels in All Classes of Wheat

	Shrunken	Broken	Total Combined
No. 1 Hard	3%	3%	3%
No. 1	4%	4%	4%
No. 2	6%	6%	7%
No. 3 and A. Durum Ex No. 4 C.W.	10%	10%	11%
No. 4	12%	10%	13%

"Shrunken kernels" are whole kernels that pass through a  $4\frac{1}{2}/64$ " x  $\frac{1}{2}$ " slotted sieve.

The following grades shall have **no limits of shrunken whole kernels**; percentage of broken kernels shall be determined by hand separation after removal of dockage:

No. 5—10% broken kernels;

No. 6—10% broken kernels;

No. 4 Special — 10% broken kernels;

No. 5 Special — 10% broken kernels;

No. 6 Special — 10% broken kernels;

Feed Wheat — 15% broken kernels.

#### AMBER DURUM, WINTER, AND WHITE SPRING WHEATS

Limits established for grades of Red Spring Wheat, beginning with No. 1 Northern, shall apply to respective grades of Amber Durum, Winter, and White Spring Wheats. The limits applying to No. 3 Northern apply to No. 3 C. W. Amber Durum as well as to Extra No. 4 C.W. Amber Durum.

When containing in excess of 15% broken kernels, up to 50%, grade "SAMPLE (class of wheat, e.g., "Red Spring") ACCOUNT BROKEN."

When containing in excess of 50% broken kernels, grade "SAMPLE BROKEN AND (class of wheat, e.g., "Sample Broken and Red Spring").

Tolerance in these Sample Grades shall be allowed up to a maximum of 4% other grains, wild oats, wheat heads and large seeds, singly or in combination.

### **Broken Kernels in Rye**

1 C.W. May contain up to 3 per cent.

If 4% clean to grade by adding 1% to Dockage.

2 C.W. May contain up to 5 percent.

If 6 or 7% clean to grade by adding 1 or 2% to Dockage.

3 C.W. and 4 C.W. May contain up to 8 per cent. clean to grade if 9% - 12%.

12 per cent and over — Grade Rye Sample C.W. Account Broken.

### **Peeled and Broken Kernels in Barley**

1 C.W. containing over 3% up to 4% of peeled and broken, grade 2 C.W.

1 C.W. or 2 C.W. containing over 4% up to 5%, grade 3 C.W.

1 C.W., 2 C.W., or 3 C.W. containing over 5%, grade No. 1 Feed.

There is no limit of peeled (or hullless) kernels in the feed grades.

Hullless will grade no higher than 1 Feed.

**EXCEPTIONS:** When shipped out of terminal, mill or eastern elevators, 2 C.W. may contain up to 5% of peeled and broken kernels, and 3 C.W. may contain up to 6% of peeled and broken kernels.

No. 1 Feed may contain not over 15% of broken kernels, 2 Feed may contain not over 30% broken kernels and 3 Feed may contain not over 50% of broken kernels.

**NOTE:** Over 50% of broken kernels, grade **SAMPLE GRAIN, BROKEN BARLEY and BARLEY** unless eligible for a grade of screenings.

### **Matter Other Than Cereal Grain in All Wheat**

1 Hard	free	( 0 Kernels)
No. 1	0.02%	( 5 Kernels)
No. 2	0.08%	( 20 Kernels)
No. 3	0.20%	( 50 Kernels)
No. 4	0.30%	( 75 Kernels)
No. 5	0.33%	( 80 Kernels)
No. 6	0.50%	(125 Kernels)
Feed	3.0%	

Beyond these limits up to about 10%, rejected to grade account admixture.

Over 10% grade No. 1 C.W. Mixed Grain if eligible, otherwise grade sample with components name.

\* See definition of official sample size on Page 5.

#### **Matter Other Than Cereal Grains in Oats:**

1 C.W., 2 C.W. and } Practically Free.  
Extra 3 C.W.

3 C.W. and }  
Extra 1 Feed About 1 per cent

1 Feed 2 per cent

2 and 3 Feed 3 per cent

Over 3 per cent up to 10 per cent — Grade Oats Rejected account admixture.

Over 10 per cent — Grade SAMPLE with components named, e.g. OATS SAMPLE C.W. ACCOUNT RAGWEED.

#### **Matter Other Than Cereal Grains in Barley:**

1 C.W. and 2 C.W. }  
Six-Row and 1 C.W. } Practically Free  
and 2 C.W. Two-Row

3 C.W. Six-Row, } About 1 per cent

3 C.W. Two-Row

1 Feed } About 2 per cent

2 Feed

3 Feed } 3 per cent

Over 3 per cent up to 10 per cent — Grade Barley Rejected Account admixture.

Over 10 per cent — Grade SAMPLE with components named e.g. Barley, Sample C.W. Account Tartarian Buckwheat.

#### **Matter Other Than Cereal Grains in Rye**

1 C.W. to 4 C.W. — See Grade definitions page 20.

Over 2% up to 10% grade Rye Rejected to Grade account admixture, over 10% grade Rye Sample C.W. with components named e.g. Rye Sample C.W. Account Ragweed.

#### **Weed Stain in All Wheat**

1 Hard Free

No. 1 Practically Free 0.1%

No. 2 1/4 of 1%

No. 3 1%

No. 4 3%

No. 5 10%

No. 6 Disregard, unless extreme

## **Admixtures of Garnet in Red Spring**

- 1 Hard—Free.
- 1 Northern—May contain up to 1%.
- 2 Northern—May contain up to 3%.
- 3 Northern—May contain up to 10%.
- 4 Northern—May contain up to 10%.

## **Blackpoint and/or Smudge in Wheat**

	Blackpoint and/or smudge	Including penetrated smudge
No. Hard	Maximum 0.5%	Free
No. 1	5%	Practically free
No. 2	10%	Maximum 3 kernels per 500 gr.
No. 3	15%	0.5%
No. 4	35%	2%
No. 5 and No. 6	No specified limits: consider general appearance of grain.	

## **Hulled Oats in Oats**

1 C.W.	3 per cent
2 C.W.	8 per cent
Extra 3 C.W.	8 per cent
3 C.W.	13 per cent
Extra 1 Feed	15 per cent
Lower Grades	No limit

## **Hulless, Black and Brown Oats**

Hulless varieties, domestic black or brown oats, will not be graded higher than Number One Feed.

## **Wild Oats in Barley**

Dockage is assessed for wild oats and shrunk barley on "C.W." grades only. Dockage for wild oats is not assessed on "Feed" grades.

It is in order to assess dockage for the removal of up to 7% of wild oats and/or shrunk barley, by use of the No. 9 WIRE SIEVE, provided that the barley will qualify for No. 3 C.W. or higher grade after this cleaning. Some shrunk barley usually passes through the sieve along with the wild oats, and is thus considered as wild oats in the assessment of dockage.

When over 7% will grade as 2 or 3 Feed Barley according to percentage tolerance of wild oats specified in the grade.

Large seeds in excess of the percentage tolerance specified in the grade will be removed as dockage where possible.

## **INSEPARABLE FOREIGN MATERIAL IN FLAX**

(that is, foreign material remaining in samples after cleaning, including Lady's Thumb seeds.)

### **(a) False Flax**

- 1 C.W. may contain up to 5%;
- 2 C.W. may contain up to 10%;
- 3 C.W. may contain up to 15%;
- 4 C.W. may contain up to 25%.

When over 25% False Flax, grade "Flaxseed Sample C.W. account False Flax".

### **(b) Inseparable seeds (other than False Flax) and/or broken grain.**

All numerical grades may contain up to 1%, to be assessed as additional dockage. When containing over 1% of such admixtures, up to 3½%, grade **Rejected (to Grade) Account Admixture**, with dockage for the excess over 2½%.

Over 3½%, including not over 1% inseparable seeds, grade **Flax and Broken Grain**.

Over 3½%, including over 1% inseparable seeds, grade **Flaxseed, Sample C.W. Account Admixture (Inseparable Seeds)**.

## **ERGOT MIXTURES IN GRAIN WHEAT**

1 Hard—Free.

1 Northern—Not more than 0.025%.

2 Northern—Not more than 0.025%.

3 Northern—Not more than 0.1%.

4 Northern—Not more than 0.1%.

No. 5—Not more than 0.25%.

No. 6—Not more than 0.25%.

Feed—Not more than 0.25%.

1 Hard, 1 Nor. and 2 Nor. containing 1/10 of 1% Ergot; degrade to Number 3 Nor. Over 1/10 of 1% up to 10%, grade as Rejected to the grade with the notation "Account of Ergot" made part of the grade name.

4 Northern containing over 1/10 of 1% up to ¼ of 1%, grade to No. 5 Wheat. Over ¼ of 1% up to 10% grade Rejected to the grade with the notation "Account of Ergot" made part of the grade name.

The above percentages are allowed in the corresponding grades of all classes of wheat.



## ERGOT IN OATS

- 1 C.W. Oats—Free
- 2 C.W. Oats—Free
- Ex 3 C.W. Oats—Not more than 0.1%.
- 3 C.W. Oats—Not more than 0.1%.
- Ex. 1 Feed Oats—Not more than 0.1%.
- No. 1 Feed Oats—Not more than 0.25%.
- No. 2 Feed Oats—Not more than 0.25%.
- No. 3 Feed Oats—Not more than 0.25%.

Over 0.25% up to 10%, grade Oats rejected account ergot. Over 10% grade Oats — Sample C.W. Account Ergot.

Mixed Feed Oats and No. 2 Mixed Feed Oats — Not more than 0.33%.

## ERGOT IN BARLEY

- 1 C.W. Six-Row—Free.
- 2 C.W. Six-Row—Not more than 0.05%.
- 1 C.W. Two-Row—Free.
- 2 C.W. Two-Row—Not more than 0.05%.
- 3 C.W. Six-Row—Not more than 0.1%.
- 3 C.W. Two-Row—Not more than 0.1%.
- 1 Feed—Not more than 0.25%.
- 2 Feed—Not more than 0.25%.
- 3 Feed—Not more than 0.25%.

Over 0.25% up to 10%, grade barley, rejected account ergot. Over 10% grade barley — Sample C.W. Account Ergot.

## Mixed Grain

Tolerance shall be the maximum allowable in lowest grade of the predominant kind of grain.

## RYE

Tolerances as defined in Canada Grain Act.

## MILDEWED OATS

The following limits apply to kernels that have deteriorated from mildew, and not to kernels with superficial mildew, which is a factor effecting appearance and general quality to be considered along with other grading factors.

No. 1 C.W.—Free.

No. 2 C.W. and No. Extra 3 C.W. up to 0.01% mildewed kernels.

No. 3 C.W. and Extra No. 1 Feed up to 0.1% mildewed kernels.

- No. 1 Feed Oats—Up to 3% mildewed kernels.  
 No. 2 Feed Oats—Up to 6% mildewed kernels.  
 No. 3 Feed Oats—Up to 9% mildewed kernels.

Over 9% up to 15%, grade Oats, rejected account mildewed kernels.

Over 15% grade Oats, sample C.W. account mildewed kernels.

### **Heated and/or Rotted Oats**

All grades down to and including 3 C.W. must be free of heated and/or rotted kernels.

Extra No. 1 Feed — May contain 4 distinctly heated and/or rotted kernels, or 8 lightly or partially heated and/or rotted kernels (such as with rotted germs), per 500 grams.

- |                  |            |
|------------------|------------|
| No. 1 Feed ..... | maximum 2% |
| No. 2 Feed ..... | maximum 3% |
| No. 3 Feed ..... | maximum 5% |

Over 5% up to 10% heated, and/or having a distinct musty or heated odour, grade Oats, Rejected Mixed Heated.

Over 10% grade Oats, Sample C.W. Account Heated, or Oats, Sample C.W. Account Rotted Kernels.

### **ADMIXTURES OF STONES IN WESTERN GRAIN, INSEPARABLE BY ORDINARY METHODS OF CLEANING**

#### **Stones in Wheat**

- 1 Hard and 1 Northern—1 stone per 1000 grams.  
 2 Northern—1 stone per 500 grams.  
 3 Northern; 4 Northern;  
 No. 5; No. 6 and Feed—3 stones per 500 grams.

All grades of wheat containing over 3 stones per 500 grams up to 2½% shall be Rejected to grade with the notation "account stones" made part of the grade name.

The above percentages are allowed in the corresponding grades of all classes or mixtures of wheat.

#### **Stones in Oats**

- 1 C.W. Oats—1 stone per 1000 grams.  
 2 C.W. Oats and Extra 3 C.W.—1 stone per 500 grams.

3 C.W.; Extra 1 Feed; 1 Feed; 2 Feed; 3 Feed — Mixed Feed Oats — 3 stones per 500 grams.

All grades of Oats containing over 3 stones per 500 grams up to  $2\frac{1}{2}\%$  shall be graded Rejected to grade account stones, with the notation "account stones" made part of the grade name

### **Stones in Barley**

1 C.W. 6 Row and 1 C.W. 2 Row — 1 stone per 1000 grams.

2 C.W. 6 Row and 2 C.W. 2 Row — 1 stone per 500 grams.

3 C.W. 6 Row; 3 C.W. 2 Row,  
1 Feed; 2 Feed and 3 Feed — 3 stones per 500 grams.

All grades of barley containing over 3 stones per 500 grams up to  $2\frac{1}{2}\%$  shall be graded "Rejected" to the grade, with the notation "account stones" made part of the grade name.

### **Stones in Rye**

1 C.W.—1 stone per 1000 grams.

2 C.W.—1 stone per 500 grams.

3 C.W.; 4 C.W.; C.W. Ergoty; and  
C.W. Ergoty and Other Grains — 3 stones per 500 grams.

All grades of rye containing over 3 stones per 500 grams up to  $2\frac{1}{2}\%$  shall be graded "Rejected" to the grade, with the notation "account stones" made part of the grade name.

### **Stones in Screenings**

1 Feed Screenings; 2 Feed Screenings—0.1% stones (wheat kernel size) or equivalent by weight of small stones (wild buckwheat size); (20 small stones).

Uncleaned Screenings — 0.5% stones per 500 grams.

Refuse Screenings — 0.5% stones per 500 grams.

All grades containing over 0.5% stones shall be graded "Sample Screenings Account Stones". Composition of sample shall be endorsed on the back of the certificate.

### **Stones in Mixed Grain**

1 C.W.; 2 C.W.; 3 C.W.;

4 C.W.; 5 C.W. — 3 stones per 500 grams.

1 C.W.; 2 C.W.; 3 C.W.; 4 C.W.; 5 C.W.—Over 3 stones per 500 grams up to  $2\frac{1}{2}\%$  grade “Rejected” to grade, with notation “account stones” made part of the grade name.

Sample Feed Grain — 0.1% of stones. Over 0.1% up to 2.5% grade sample feed grain, STONES. Over 2.5% grade SAMPLE SALVAGE.

### **Stones in Flax**

All grades of Flax may contain not more than 0.05% stones (flaxseed size) per 500 grams.

Over 0.05% stones per 500 grams up to 2.5% grade “Rejected” to the grade with notation “account stones.”

N.B.: The established export standard of any grade of Western grain shall govern when stones are contained in any Western grain loaded at terminal, mill or Eastern elevators.

### **MINERAL MATTER IN RAPESEED**

(a) **Stones**—all grades of rapeseed may contain not more than 0.05% stones. When over 0.05% stones up to  $2\frac{1}{2}\%$  Rejected (to grade) account stones.

(b) **Earth Pellets**—when not removed by ordinary mechanical cleaning, are included in the percentage of “other seeds that are conspicuous”, in the statutory definitions, and added to dockage, up to  $2\frac{1}{2}\%$ . Over  $2\frac{1}{2}\%$  grade Rapeseed, Sample Account Earth Pellets.

### **SAMPLE SALVAGE**

Any western grain containing in excess of  $2\frac{1}{2}\%$  of stones, or containing gravel, cinders and/or like material that is normally contained in grain salvaged from wreck in transit, shall be graded “Sample Salvage”.

## NOTES ON MAXIMUM TARIFF OF CHARGES IN LICENSED COUNTRY ELEVATORS

Under the provisions of the Canada Grain Act, and subject to the capacity of the elevator and the nature of the construction, grain shall be received into licensed country elevators upon the following conditions, and subject to charges not in excess of those specified herein.

Service	Basis of Rate	Rate
<b>1. Elevation</b>		
Receiving, elevating, storing and insurance for the first fifteen days, and delivering into railway cars or other conveyances		
(a) wheat, barley, rye and corn .....	per bus.	2½c
(b) oats .....	per bus.	2½c
(c) flaxseed, rapeseed and mustard seed .....	per bus.	5c
(d) sunflower seed .....	per 100 lbs.	7c
(e) any other grain .....	per bus. or per lb.	a rate agreed upon by the elevator manager and owner of the grain and approved by the Board.
<b>2. Storage (including insurance against fire)</b>		
For each succeeding day or part thereof after the first fifteen days		
(a) all grain except sunflower seed .....	per bus.	1/30c
(b) sunflower seed .....	per 100 lbs.	1/15c
<b>3. Cleaning</b>		
All grain .....	per bus.	a rate agreed upon by the elevator manager and owner of the grain according to the nature of dockage, but not exceeding 2c.

Notes — 1. All charges are based on gross grain weight of the grain delivered, as shown on the receipt or ticket issued in respect of the grain.

2. Storage charges on Special Bin Grain are charged after fifteen days from delivery of each individual load in accordance with the contract set forth in the special bin elevator receipt.

### SHRINKAGE

No elevator shall take more than the allowance for shrinkage, waste in handling, storing and transmitting the grain to a terminal than the weight in pounds set forth in the shrinkage table which forms part of the tariff for Country Elevators.

Such shrinkage table shall be placed conspicuously, in all licensed Country Elevators for free inspection of the public.

# SHRINKAGE TABLE

## STRAIGHT GRADES

WHEAT-OATS-BARLEY  
CORN-SUNFLOWER (1/4%)

Shrinkage			
Under	Lbs.	Lbs.	Lbs.
From	2000 to	5999	Nil
	6000	9999	10
	10000	13999	20
	14000	17999	30
	18000	21999	40
			50

RYE (1/2%)

Under	Lbs.	Lbs.	Lbs.
From	1000 to	2999	Nil
	3000	4999	10
	5000	6999	20
	7000	8999	30
	9000	10999	40
	11000	12999	50
	13000	14999	60
	15000	16999	70
	17000	18999	80
	19000	20999	90
			100

FLAX-RAPESEED  
MUSTARD SEED (1%)

Shrinkage			
Under	Lbs.	Lbs.	Lbs.
From	500 to	1499	Nil
	1500	2499	10
	2500	3499	20
	3500	4499	30
	4500	5499	40
	5500	6499	50
	6500	7499	60
	7500	8499	70
	8500	9499	80
	9500	10499	90
	10500	11499	100
	11500	12499	110
	12500	13499	120
	13500	14499	130
	14500	15499	140
	15500	16499	150
	16500	17499	160
	17500	18499	170
	18500	19499	180
	19500	20499	190
			200

## TOUGH OR DAMP

WHEAT-CORN-OATS (1/2%)  
BARLEY-SUNFLOWER

Shrinkage			
Under	Lbs.	Lbs.	Lbs.
From	1000 to	2999	Nil
	3000	4999	10
	5000	6999	20
	7000	8999	30
	9000	10999	40
	11000	12999	50
	13000	14999	60
	15000	16999	70
	17000	18999	80
	19000	20999	90
			100

RYE (1%)

Under	Lbs.	Lbs.	Lbs.
From	500 to	1499	Nil
	1500	2499	10
	2500	3499	20
	3500	4499	30
	4500	5499	40
	5500	6499	50
	6500	7499	60
	7500	8499	70
	8500	9499	80
	9500	10499	90
	10500	11499	100
	11500	12499	110
	12500	13499	120
	13500	14499	130
	14500	15499	140
	15500	16499	150
	16500	17499	160
	17500	18499	170
	18500	19499	180
	19500	20499	190
			200

FLAX-RAPESEED  
MUSTARD SEED (1 1/2%)

Shrinkage			
Under	Lbs.	Lbs.	Lbs.
From	500 to	999	Nil
	1000	1699	10
	1700	2299	20
	2300	2999	30
	3000	3699	40
	3700	4299	50
	4300	4999	60
	5000	5699	70
	5700	6299	80
	6300	6999	90
	7000	7699	100
	7700	8299	110
	8300	8999	120
	9000	9699	130
	9700	10299	140
	10300	10999	150
	11000	11699	160
	11700	12299	170
	12300	12999	180
	13000	13699	190
	13700	14299	200
	14300	14999	210
	15000	15699	220
	15700	16299	230
	16300	16999	240
	17000	17699	250
	17700	18299	260
	18300	18999	270
	19000	19699	280
	19700	20299	290
			300

## DOCKAGE ON CASH OR STORED GRAIN

Every country elevator shall be equipped with the necessary sieves, scales and dockage testing equipment for the accurate determination of dockage. All such equipment used by country elevators shall conform to specification standards established by the Board. This equipment must be kept in good condition and shall be subject to inspection and approval by such officers as the Board may direct.

Operators shall make accurate determinations of dockage on a properly representative sample of not less than 500 grams (or 1-lb.) by use of proper sieves and equipment designated below, and by hand-picking, if necessary, any portion not separable by sieves. Dockage shall be computed to the nearest one-half percent ( $\frac{1}{2}\%$ ).

The elevator operator shall make the test in the presence of the owner of the grain when requested.

### SIEVES, SCALES AND DOCKAGE TESTING EQUIPMENT

For determining dockage in:	Equipment to be used
<b>Wheat</b>	Wire Sieve, 10 x 10 mesh-per-inch. No. 5 Buckwheat Sieve No. 6 Buckwheat Sieve. Cowan Dockage Tester and/or Emerson Kicker.
<b>Barley</b>	Wire Sieve 9 x 9 mesh-per-inch. $4\frac{1}{2}/64$ Round Hole Sieve. No. 5 or No. 6 Buckwheat sieve.
<b>Oats</b>	$4\frac{1}{2}/64$ Round Hole Sieve. No. 5 or No. 6 Buckwheat sieve.
<b>Rye</b>	No. 5 or No. 6 Buckwheat sieve. Emerson Kicker.
<b>Flaxseed</b>	<b>Double Sieve</b> Top: Wire sieve, 3 mesh x 16 mesh per inch, for small seed- ed varieties, or Top: Wire sieve, 4 mesh x 14 mesh per inch, for large seeded varieties such as Rocket or Dakota. Bottom: $4\frac{1}{2}/64$ or $5/64$ round hole sieve.
<b>Corn</b>	$12/64$ round hole sieve.
<b>Soybeans</b>	$8/64$ round hole sieve. $8/64$ x $\frac{3}{4}$ inch slotted hole sieve. $9/64$ x $\frac{3}{4}$ inch slotted hole sieve.
<b>Sunflower Seed</b>	<b>Double Sieve</b> Top: $18/64$ round hole sieve. Bottom: $10/64$ round hole sieve.

<b>Rapeseed</b>	5/64 round hole sieve.
	5½/64 round hole sieve.
	6/64 round hole sieve.
	Wire sieve—4 x 20 mesh-per-inch.
	Wire sieve—4 x 22 mesh-per-inch.
<b>Mustard Seed</b>	Wire sieve—6x21 mesh-per-inch.
	5/64 round hole sieve.
	5½/64 round hole sieve.
	6/64 round hole sieve.
	Wire sieve—4x20 mesh-per-inch.
<b>Peas</b>	Wire sieve—4x22 mesh-per-inch.
	Wire sieve—6x21 mesh-per-inch.
	8/64 x ¾ inch slotted hole sieve.
<b>Domestic Buckwheat</b>	9/64 x ¾ inch slotted hole sieve.
	No. 5 or No. 6 Buckwheat sieve.

### GENERAL

When tough, damp or wet grain is taken into store it shall be at the owner's risk, and the elevator operator shall have the right to ship it immediately to a terminal elevator for treatment.

All tough, damp or wet grain, containing an excessive amount of snow and ice, may be handled subject to agreement between the owner of the grain and the operator.

### GRAIN TREATMENT RESTRICTIONS AT COUNTRY ELEVATORS

Grain shall not be treated with mercurial dust compounds or other fungicides in any part of the elevator or driveway, nor shall such fungicides be stored in the elevator or driveway. Seed treatment shall be carried out in a separate building which shall not be equipped with spouts or connections which will permit grain to be returned to the elevator.

Where new grain treating facilities are being planned, detailed plans and specifications must be submitted to the Board for review and approval before proceeding with these installations.

### NOTES ON MAXIMUM TARIFF OF SEMI PUBLIC TERMINAL ELEVATORS CHARGES AT FORT WILLIAM, PORT ARTHUR, WINNIPEG, CHURCHILL, PACIFIC COAST AREA AND INTERIOR TERMINALS

Under the provisions of The Canada Grain Act and subject to the capacity of the elevator and the nature of its equipment, grain shall be received at terminal elevators, upon the following conditions and subject to charges not in excess of those specified in the Regulations. See table page 51.



# **SCHEDULE C** **TARIFF — TERMINAL ELEVATORS**

SERVICE		Basis of Rate	Fort William- Port Arthur	Churchill	Winnipeg	Pacific Coast	Interior Terminals
<b>1. Elevation</b>							
(1) Receiving, elevating, shipping, storing and insurance for first five days							
(a) wheat, oats, barley and corn	per bushel	2 5/8¢	2 5/8¢	2 5/8¢	2 5/8¢	2 5/8¢	—
(b) rye	"	3 1/8¢	3 1/8¢	3 1/8¢	3 1/8¢	3 1/8¢	—
(c) flaxseed	"	4 1/8¢	4 1/8¢	4 1/8¢	4 1/8¢	4 1/8¢	—
(d) rapeseed and mustard seed	"	5 1/8¢	5 1/8¢	5 1/8¢	5 1/8¢	5 1/8¢	—
(e) screenings	"	5¢	5¢	5¢	5¢	5¢	—
(f) sunflower seed	"	5¢	5¢	5¢	5¢	5¢	—
(2) Receiving from railway cars, elevating, shipping, storing and insurance for first five days							
(a) wheat, oats, barley, rye and corn	per bushel	—	—	—	—	—	1 5/8¢
(b) flaxseed	"	—	—	—	—	—	2 5/8¢
(c) rapeseed and mustard seed	"	—	—	—	—	—	5 1/8¢
(d) screenings	"	—	—	—	—	—	5¢
(e) sunflower seed	"	—	—	—	—	—	5¢
(3) Receiving from wagons or trucks, elevating, shipping, storing and insurance for first five days							
(a) wheat, oats, barley, rye and corn	per bushel	—	—	—	—	—	2 1/8¢
(b) flaxseed	"	—	—	—	—	—	3 1/8¢
(c) rapeseed and mustard seed	"	—	—	—	—	—	5 5/8¢
(d) screenings	"	—	—	—	—	—	6 1/2¢
(e) sunflower seed	"	—	—	—	—	—	6 1/2¢
(4) Additional charges for shipping in railway cars, all grains							
(a) wheat, oats, barley, rye and corn	per bushel	1 1/2¢	1 1/2¢	1 1/2¢	1 1/2¢	1 1/2¢	—
<b>2. Storage</b>							
(1) Storing, including insurance for each day after five days							
(a) wheat, oats, barley, rye, flaxseed, rapeseed, mustard seed and corn	per bushel	1/30¢	1/30¢	1/30¢	1/30¢	1/30¢	1/30¢
(b) screenings	per 100 pounds	1/10¢	1/10¢	1/10¢	1/10¢	1/10¢	1/10¢
(c) sunflower seed	"	1/15¢	1/15¢	1/15¢	1/15¢	1/15¢	1/15¢

**EFFECTIVE JANUARY 1, 1966.** The maximum elevation charge for receiving, elevating, shipping, storing, and insurance for first five days for wheat, oats, barley, rye, flaxseed, corn, rapeseed and mustard seed will be increased by one-quarter of one cent (1/4c).

## **TERMINAL CLEANING CHARGES**

(1) **For removal of dockage:** (other than grain for which a return is made).

(a) **Wheat, Oats** — containing less than 3% dockage—No charge; containing from 3% to 5% dockage—One-half cent ( $\frac{1}{2}c$ ) per bushel; containing from 5½% up to 10% dockage—One cent (1c.) per bushel; containing more than 10% dockage—One and one-half cents ( $1\frac{1}{2}c$ ) per bushel.

(b) **Flax** — Containing less than 5½% dockage—No charge; containing from 5½% to 10% dockage—Two and one-half cents ( $2\frac{1}{2}c$ ) per bushel; containing more than 10% dockage—Three cents (3c) per bushel.

(c) **Rye**—Containing less than 3% dockage—¼ cent per bushel; containing from 3 to 5% dockage—1 cent per bushel; containing from 5½% to 10% dockage—1½ cents per bushel; containing more than 10% dockage—2 cents per bushel.

(d) **Barley**—Containing less than 5½% dockage—one-half cent ( $\frac{1}{2}c$ ) per bushel; containing from 5½% to 10% dockage—one cent (1c) per bushel; containing more than 10% dockage—one and one-half cents ( $1\frac{1}{2}c$ ) per bushel.

(e) **Sunflower Seed**—Containing less than 5½% dockage — no charge; containing from 5½ to 10% dockage — three cents (3c) per hundred (100) pounds; containing more than 10% dockage—four cents (4c) per hundred (100) pounds.

(2) **For removal of other grain, except mixed feed oats, from grain carrying a return for such other grain (c.c. cars) in addition to charges, if any, as herein provided.**

**All Grains:** Containing not more than 10% other grain—Three cents (3c) per hundred pounds; containing more than 10% but not more than 15% other grain — Four cents (4c) per hundred pounds; containing more than 15% of other grain — Five cents (5c) per hundred pounds.

(3) **For removal of mixed feed oats from wheat carrying a return of mixed feed oats.** One-half cent ( $\frac{1}{2}c$ ) per bushel in addition to charges as herein provided.

## **TERMINAL SPECIAL SEPARATIONS**

**Separations of mixed grain or straight grade**

grain to improve grade, computed on gross weight of car, five cents (5c) per one hundred pounds.

On all such separations a deduction of one per cent (1%) of the gross weight will be made to cover invisible loss in separation.

### TERMINAL RETURNS FOR DOCKAGE

**Wheat:** On shipments assessed dockage of three percent (3%) or more a return for all such screenings, less one-half of one percent of the gross weight of the shipment for waste shall be made to the shipper. Separate returns shall be made for other grain or mixed feed oats (wild oats) in shipments designated "Machine Separation" on account of containing two and one-half percent ( $2\frac{1}{2}\%$ ) or more oats; two and one-half per cent ( $2\frac{1}{2}\%$ ) or more flax; three per cent (3%) or more flax and broken grain; three and one-half per cent ( $3\frac{1}{2}\%$ ) or more mixed feed oats, or five percent (5%) or more broken wheat. On shipments which are designated "Machine Separation" for mixed feed oats (wild oats) a deduction of one-half of one percent of the gross weight of the shipment for waste shall be deducted from the return for the mixed feed oats.

**Oats:** On shipments assessed dockage of three percent (3%) or more a return for all such screenings, less one-half of one percent of the gross weight of the shipment for waste shall be made to the shipper. A separate return shall be made for flax in shipments designated "Machine Separation" on account of containing two and one-half percent ( $2\frac{1}{2}\%$ ) or more flax; or three percent (3%) or more flax and broken grain.

**Barley:** On shipments assessed dockage a return for all such screenings less one-half of one percent of the gross weight of the shipment for waste shall be made to the shipper. A separate return shall be made for flax in shipments designated "Machine Separation" on account of containing two and one-half percent ( $2\frac{1}{2}\%$ ) or more of flax; or three percent (3%) or more flax and broken grain.

**Rye:** On shipments assessed dockage of three percent (3%) or more a return for all such screenings less one percent (1%) of the gross weight of the shipment for waste shall be made to the shipper. Separate return shall be made for other grain in shipments designated "Machine Separation" on ac-

count of containing two and one-half percent (2½%) or more oats; two and one-half percent (2½%) or more of flax; three percent (3%) or more flax and broken grain; or five percent (5%) or more broken rye.

**Flax, Rapeseed and Sunflower Seed:** On shipments assessed dockage of five and one-half percent (5½%) or more a return for all such screenings less two and one-half percent (2½%) for flax and rapeseed, less 1% for Sunflowers; of the gross weight of the shipment for waste shall be made to the shipper.

Separate returns shall be made for other grain or mixtures of grains in shipments designated "Machine Separation" on account of containing two and one-half percent (2½%) or more of other grain or mixtures of grains.

**Quality of Screenings:** The holder of Warehouse Receipts or shut-outs covering dockage shall be entitled to receive the average quality of screenings in accordance with sample tests which shall be made in such manner as shall be determined by the Inspection Branch.

**Disposition of Screenings:** If instructions for the disposition of screenings covered by outstanding returns are not received within thirty days from the date of unloading, such screenings may be disposed of for account of whom it may concern.

## **DRYING CHARGES**

All grain except Flax, Sunflower Seed, Rapeseed, Mustard Seed, and the malting grades of Barley

Tough—Four Cents (4c) per bus.  
Damp — up to and including 20% moisture —  
Six and one-half cents (6½c) per bus.  
Damp — containing over 20% moisture — Seven  
and one-half cents (7½c) per bus.

**Flax and the malting grades of Barley**

Tough — Five Cents (5c) per bus.  
Damp — Nine Cents (9c) per bus.

**Rapeseed and Mustard Seed**

Tough — Five cents (5¢) per bushel;  
Damp—Ten cents (10¢) per bushel.

**Sunflower Seed**

Tough — Ten Cents (10c) per hundred (100) lbs.

Damp — Fifteen Cents (15c) per hundred (100) lbs.

Moist and Wet — Twenty Cents (20c) per hundred (100) lbs.

### **ALLOWANCE FOR INVISIBLE LOSS AND SHRINKAGE ON ALL CARS**

Wheat, .5 bushels per car; Oats, 1.5 bushels per car; Barley, 1.0 bushels per car; Corn, 1.0 bushels per car; Rye, 1.3 bushels per car; Flax, 2.1 bushels per car; Rapeseed and Mustard Seed, 2.5 bushels per car; No. 1 Mixed Grain, .5 bushels per car; No. 2 Mixed Grain, 1.3 bushels per car; No. 3 Mixed Grain, 1.0 bushels per car; No. 4 Mixed Grain, 1.5 bushels per car. No. 5 Mixed Grain and Sunflower Seed 50 lbs. per car.

### **BULKHEADS**

On Bulkheads for their removal and other additional expense in handling and unloading car, five dollars (\$5.00) per bulkhead.

### **UNLOADING SACKED GRAIN**

A charge of five cents (5c) per sack will be made for unloading all sacked grain.

### **SACKING GRAIN**

SACKING GRAIN: On sacks not exceeding 125 lbs., 1½c per bushel; 160 lbs., 2c per bushel; 220 lbs., 2½c per bushel.

Double sacking 1c per sack in addition to above.

For sacking Screenings 10c per sack. This will only be done when conditions warrant it at the discretion of the Licensee.

Sacks and twine to be furnished by shipper. In case of machine sewing the charge is ½c per sack for twine.

A charge of ½c per sack will be made for stencilling.

### **PREPARING CARS FOR LOADING**

When PAPER is used in preparing cars, there will be a charge of ten dollars (\$10.00) for each car.

### **UNSPECIFIED GRAIN**

Salvaged or other unspecified grain will only be

received, stored and treated subject to special charges to be agreed upon at the time subject to the approval of the Board of Grain Commissioners.

Tariffs of charges lower than the above maximum tariff may be filed with the Board by the Manager of any Terminal Elevator, but such lower charges shall apply to all grain received in such elevator during the crop year for which such tariffs or charges are filed.

### **NOTE RE ALL CHARGES**

All charges for cleaning, drying or other treatment will be computed on gross weights—for elevation and storage on net weights. These accrued charges, together with freight charges, are due the elevator company when the car is out-turned and warehouse receipt issued. All such charges are paid by the elevator company, to whom the car is consigned. The terminal elevator tariff allows 5 days free storage included in the elevator fee.

### **NOTES RE INTERIOR TERMINAL TARIFF**

See table on page 51.

### **SPECIAL CLEANING**

For removal of material other than assessed dockage, at request of owner:

One-half cent per bushel in addition to charges under "Cleaning Charges" Section 1. Returns for such cleaning to be based on actual results after cleaning and deduction for actual invisible loss.

**DELIVERY OF GRAIN TREATED WITH  
POISONOUS MATERIALS OR  
CONTAINING EXTRANEEOUS MATERIALS**

In order to prevent the entry into commercial channels of grain treated with poisonous fungicides, or containing extraneous materials, the Board of Grain Commissioners for Canada has made effective immediately the following Regulation No. 74.

No. 74. (1) No person shall offer for storage or sale at a licensed elevator any grain that has been treated with mercurial compounds or other poisonous material or any grain mixed with other grain that has been so treated. (2) Except with the permission of the chief grain inspector no carlot of grain found to contain grain treated with mercurial compounds or other poisonous materials shall be moved to any destination.

No. 74A. No person shall wilfully or carelessly cause or permit glass or other extraneous material to be introduced into or remain in grain or grain screenings under the jurisdiction of the Board.

NOTE — Severe penalties are provided by the Canada Grain Act for any individual convicted of such violations.

## THE SEEDS ACT, 1960

*The seed grade regulations are administered by the Production and Marketing Branch, Plant Products Division, of the Canada Department of Agriculture. The Grades of various kinds and classes of seed are described in detail in "The Seeds Act", 1960. A copy of this Act containing a list of the prohibited, primary, and secondary noxious weed seeds, may be secured from any district office of the Plant Products Division, Winnipeg, Saskatoon, or Edmonton; or direct from the Canada Department of Agriculture, Ottawa.*

### DEFINITIONS

Registered Seed has a recorded and approved ancestry and is the progeny of Breeder or Foundation seed so handled as to maintain satisfactory genetic identity and purity. It is the highest grade of seed recognized by Statute in Canada. The first crop produced from Foundation seed of a cereal crop is known as Registered First Generation and each succeeding crop will be one generation lower. At present cereal varieties are limited to two generations in the Registered class. However, varieties in short supply are continued through further generations.

Under the two generation system, Registered seed is intended primarily for multiplication purposes, i.e. to increase the relatively small quantities of Breeder and Foundation seed so that large quantities of Certified seed can be produced. Only those varieties of outstanding merit, which have been licensed for sale by the Canada Department of Agriculture are eligible for pedigreed status. Pedigreed crops must meet the very high standards of purity established by the Canadian Seed Growers' Association and the seed produced must meet the very high grade standards of the Canada Seeds Act.

**Registered Seed.** Under the latest Seeds Regulations (effective July 15, 1960) "registered status" with respect to seed means that:

- (1) The crop from which the seed is derived meets the standards prescribed by the Canadian Seed Growers' Association and a Crop Registration Certificate has been issued by that Association, or,
- (2) If of foreign origin, the seed is certified as



being of registered status by an approved certifying agency.

**Certified Seed** is the progeny of Breeder, Foundation or Registered seed so handled as to maintain satisfactory genetic identity and purity. It must now be traceable to the above stocks. It differs from registered seed only in that the purity standards as determined by field and seed inspection are not quite as high as those required for registration. Certified seed is the class of seed intended for general crop improvement purposes.

Under the latest Seeds Regulations (effective July 15, 1960) "certified status" with respect to seed means that

- (1) The crop from which the seed is derived meets the standards, prescribed by the Canadian Seed Growers' Association and a crop certificate has been issued by that Association, or,
- (2) If of foreign origin, the seed is certified as being of certified status by an approved certifying agency.

### **CLASSIFICATION OF WEED SEEDS**

(Weed Seeds Order — August 12, 1960)

**Prohibited Noxious.** Dodder, Field Bindweed, Halogeton, Hoary Cress, Horse Nettle, Leafy Spurge, Russian Knapweed, Tansy Ragwort.

**Primary Noxious.** Bladder Campion, Couch Grass, Great Ragweed, Ox-eye Daisy, Perennial Sow Thistle, Toad Flax, White Cockle, Wild Mustard, Wild Radish, Yellow Rocket or Winter Cress.

**Secondary Noxious.** Bedstraw, Canada Thistle, Chicory, Common Ragweed, Dock, Dog Mustard, False Flax, Field Peppergrass, Night-flowering Catchfly, Ribgrass, Stickseed, Stinkweed, Tall Hedge Mustard, Wild Carrot, Wild Oats.

# SEED GRADE STANDARDS

1	2	3	4	5	6
WHEAT Common, Durum	Maximum number of seeds per pound except where otherwise stated			Total other crops	Minimum per- centage germina- tion
	Noxious weed seeds		Total weed seeds		
	Primary	Primary plus secondary			
1. Canada Registered No. 1.....	0	0	3	0.25	85
2. Canada Registered No. 2.....	0	2 per bu.	10	1.0	75
3. Canada Certified No. 1.....	0	0	5	1.0	85
4. Canada Certified No. 2.....	0	2 per pk.	10	3.0	75
5. Canada No. 1 seed.....	0	1	15	10.0	85
6. Canada No. 2 Seed.....	2	8	50	50.0	70

- NOTE 1. In addition to the standards prescribed in the Table, seed to which the Table applies shall in Manitoba, Saskatchewan, Alberta and British Columbia be free from tartarian buckwheat.
2. Ergot (*Claviceps purpurea*) shall not be present in excess of 1 per two pounds in grades Canada Registered No. 1 and Canada Certified No. 1 or 4 per pound in Canada Registered No. 2 and Canada Certified No. 2.
3. In Column 5 there may be allowed in Durum wheat (*Triticum durum* Desf.) additional seeds of common wheat (*Triticum aestivum* L.) as follows:  
Five in Canada Certified No. 1, ten in Canada Certified No. 2, fifteen in Canada No. 1 seed, twenty-five in Canada No. 2 seed.

# SEED GRADE STANDARDS (Cont.)

1	2	3	4	5	6	7	8
	Maximum number of seeds per pound except where otherwise stated				Total other crops	Rye	Minimum percentage germination
	Noxious weed seeds		Additional wild oats in oats	Total weed seeds			
	Primary	Primary plus secondary					
1. Canada Registered No. 1.....	0	0	0	3	0.5	75	85
2. Canada Registered No. 2.....	0	2 per bu.	0	10	2	65	75
3. Canada Certified No. 1.....	0	2 per pk.	0	5	3	75	85
4. Canada Certified No. 2.....	0	3 per pk.	0	10	10	65	75
5. Canada No. 1 seed.....	0	1	1	15	100	75	85
6. Canada No. 2 seed.....	2	3	6	50	150	65	75

NOTE 1. In addition to the standards prescribed in the Table, seed to which the Table applies shall in Manitoba, Saskatchewan, Alberta and British Columbia be free from tartarian buckwheat.

2. Ergot (*Claviceps purpurea*) shall not be present in excess of 1 per two pounds in grades Canada Registered No. 1 barley, 4 per pound in Canada Registered No. 2 barley, 1 per pound in Canada Registered No. 1 rye or 10 per pound in Canada Registered No. 2 rye.

3. True loose smut (*Ustilago nuda*) as determined by the embryo test method shall not be present in barley in excess of four per cent in the Canada Registered grades or 8 per cent in the Canada Certified grades.

4. In column 3 there may be allowed six primary and secondary noxious weed seeds per peck in Canada Certified No. 2 oats.

5. In column 5 there may be allowed ten additional false wild oats in all grades of oats.

# SEED GRADE STANDARDS (Cont.)

1	2	3	4	5	6	7
CANARY GRASS FLAX (Oil and Fibre) SORGHUM, SUDAN GRASS	Maximum number of seeds per ounce					
	Noxious weed seeds		Total weed seeds	Seeds of other crops	Flax	Other kinds
	Primary	Primary plus secondary				
	0	0	3	0.5	85	70
	0	0.5	5	1.0	75	60
	0	0.5	5	1.0	85	70
	0	2.0	10	2.0	75	60
	0	2.0	10	2.0	85	70
	1	10.0	50	8.0	70	60
	1. Canada Registered No. 1.....					
2. Canada Registered No. 2.....						
3. Canada Certified No. 1.....						
4. Canada Certified No. 2.....						
5. Canada No. 1 seed.....						
6. Canada No. 2 seed.....						

NOTE: In column 5 there may be allowed in seed of sorghum, Sudan grass and canarygrass other crop seeds as follows:  
 25 in Canada No. 1 seed and 50 in Canada No. 2 seed.

# SEED GRADE STANDARDS (Cont.)

1	2	3	4	5	6
	Maximum number of seeds per pound			Minimum percentage germination	
	weed seeds	other crops			
BEANS, PEAS, CORN, SOYBEAN, SUNFLOWER SAFFLOWER					
1. Canada Registered No. 1.....	0	0	13	85	90
2. Canada Registered No. 2.....	0	0	13	75	70
3. Canada Certified No. 1.....	0	1	13	85	90
4. Canada Certified No. 2.....	0	3	13	75	80
5. Canada No. 1 seed.....	1	5	14	80	85
6. Canada No. 2 seed.....	3	10	14	60	65

NOTE: When sweet corn, garden peas or garden beans, sold ungraded, germinate less than 75 per cent, the percentage of germination shall be stated on the label or package.

# SEED GRADE STANDARDS (Cont.)

1	2	3	4	5	6	7				8	
Species of:	Maximum number of seeds per ounce except where otherwise stated					Minimum percentage pure living seed				Minimum percentage pure seed	
	Noxious weed seeds		Total weed seeds	Sweet clover	Seeds of other crops	1	2	3	4	5	6
	Primary	Primary plus secondary									
WHEATGRASS, FESCUE and RYEGRASS, BROMEGRASS, RUSSIAN WILD RYE REED CANARYGRASS											
1. Canada Registered No. 1	0	1	5	1	5	80	75	70	55	95	90
2. Canada Registered No. 2	0	2	25	2	25	70	65	60	50	90	80
3. Canada Certified No. 1	0	5	75	25	2% by weight	80	75	70	55	95	90
4. Canada Certified No. 2	0	10	100	50	3% by weight	70	65	60	50	90	80
5. Canada No. 1 Seed	0	5	75	25	2% by weight	80	75	70	55	95	90
6. Canada No. 2 Seed	5	20	150	100	3% by weight	70	65	60	50	90	80
7. Canada No. 3 Seed	10	50	200	Less than 1% by weight	Less than 5% by weight	60	55	55	45	80	75

1. Annual ryegrass, Meadow fescue, Perennial ryegrass, Tall fescue, Creeping red fescue, Red fescue, Chewing's fescue.

2. Meadow foxtail, Orchard grass, Pubescent wheatgrass, Russian wild rye, Slender wheatgrass, Streambank wheatgrass, Bromegrass, Fine-leaved, hard, sheep's and various-leaved fescues.

3. Crested wheatgrass, Intermediate wheatgrass, Tall wheatgrass, Tall oatgrass.

4. Reed Canary grass.

5. Annual ryegrass, Creeping red fescue, Meadow fescue, Perennial ryegrass, Red fescue, Reed canary grass, Tall fescue.

6. Bromegrass, Crested wheatgrass, Intermediate wheatgrass, Meadow foxtail, Orchard grass, Pubescent wheatgrass, Russian wild rye, Slender wheatgrass, Streambank wheatgrass, Tall oatgrass, Tall wheatgrass.

# SEED GRADE STANDARDS (Cont.)

1	2	3	4	5	6	7	8
ALFALFA, MILLETS, CLOVER (Crimson, Red, Sweet)  TIMOTHY	Maximum number of seeds per ounce except where otherwise stated		Total weed seeds	Sweet clover	Seeds of other crops	Mini- mum per- centage germin- ation	Maximum percentage hulled seed in timothy by count
	Noxious weed seeds						
	Primary	Primary plus secondary					
	1. Canada Registered No. 1.....	0					
2. Canada Registered No. 2.....	0	2	75	1	50	70	100
3. Canada Certified No. 1.....	0	5	75	25	2% by weight	80	50
4. Canada Certified No. 2.....	0	10	100	50	3% by weight	70	75
5. Canada No. 1 seed.....	0	5	75	25	2% by weight	80	50
6. Canada No. 2 seed.....	5	15	150	100	3% by weight	70	75
7. Canada No. 3 seed.....	10	50	300	less than 1% by weight	less than 5% by weight	60	100

NOTE: 1. Column 5 does not apply to sweet clover graded under this table.

2. In column 6 there may be allowed in timothy seeds of other crops as follows:—  
20 in Canada Registered No. 1 and 100 in Canada Registered No. 2.

# SEED GRADE STANDARDS (Cont.)

1	2	3	4	5	6	7	8
	Maximum number of seeds per ounce except where otherwise stated						
	Noxious weed seeds		Total weed seeds	Sweet clover	Seeds of other crops	Bird's foot trefoil	Minimum percentage germination
	Primary	Primary plus secondary					
1. Canada Registered No. 1.....	0	1	10	1	15	75	85
2. Canada Registered No. 2.....	0	2	75	1	100	65	70
3. Canada Certified No. 1.....	0	10	100	25	2% by weight	75	80
4. Canada Certified No. 2.....	0	20	200	50	3% by weight	65	70
5. Canada No. 1 seed.....	0	10	100	25	2% by weight	75	80
6. Canada No. 2 seed.....	5	20	200	100	3% by weight	65	70
7. Canada No. 3 seed.....	10	50	300	less than 1% by weight	less than 5% by weight	55	60

NOTE: Seeds of other crops in bird's-foot trefoil under Column 6 may be 3 per cent for Canada Certified No. 1 and Canada No. 1 seed and 5 per cent for Canada Certified No. 2 and Canada No. 2 seed.



## SEED GRADE STANDARDS (Cont.)

1	2	3	4	5	6
	Maximum number of seeds per ounce				
	Noxious weed seeds		Total weed seeds	Seeds of other crops	Minimum percentage germination
	Primary	Primary plus secondary			
MUSTARD (Cultivated)					
RAPE (except oilseed rape)					
1. Canada Registered No. 1.....	0	2	5	5	80
2. Canada Registered No. 2.....	2	10	25	20	60
3. Canada Certified No. 1.....	0	5	20	10	80
4. Canada Certified No. 2.....	2	20	50	20	70
5. Canada No. 1 seed.....	1	10	30	10	80
6. Canada No. 2 seed.....	2	50	100	30	70

# SEED GRADE STANDARDS (Cont.)

1	2	3	4
DUTCH SETS AND MULTIPLIER ONIONS	Size Square Mesh Screen	Variety and Colour	General Quality
No. 1 Seed	Diameter $\frac{3}{8}$ " to $\frac{7}{8}$ "	Not less than 98% one variety and colour	Mature, well cured, sound, free from decay and dry. Practically free from tops, dirt, leaves or other foreign matter, from disease and moulds and from insect, mechanical, frost or other damage. Practically free from sprouted and soft bulbs when graded.
No. 2 Seed	Diameter $\frac{3}{8}$ " to $1\frac{1}{8}$ "	Not less than 90% one variety and colour	Mature, well cured, sound, free from decay and reasonably dry. Reasonably free from tops, dirt, leaves or other foreign matter, from disease and moulds and from insect, mechanical, frost or other damage. Reasonably free from soft bulbs and containing not more than 3% sprouts when graded.

NOTE—1. The size standards under column 2 do not apply to multiplier onions.  
 2. Onion sets may be labelled "pin-head" onion sets when they conform to the standards specified in the table and when the diameter of the sets is not more than  $\frac{3}{8}$  inches.

# SEED GRADE STANDARDS (Cont.)

1	2	3	4	5	6
	Maximum number of seeds per ounce except where otherwise stated				
	Noxious Weed Seeds		Total Weed Seeds	Seeds of Other Crops	Minimum Percentage Germination
	Primary	Primary Plus Secondary			
Registered No. 1	0	0	25	20	90
Registered No. 2	0	2	50	50	75
Certified No. 1	0	2	50	50	90
Certified No. 2	0	5	100	100	80
No. 1 Seed	0	10	100	0.5% by weight	90
No. 2 Seed	10	50	250	1% by weight	70

1	2	3	4	5	6
	Maximum number of seeds per ounce except where otherwise stated				
	Noxious Weed Seeds		Total Weed Seeds	Sweet Clover	Minimum Percentage Germination for Each Ingredient
	Primary	Primary Plus Secondary			
No. 1 Mixture	0	10	100	50	75
No. 2 Mixture	10	30	200	100	65
No. 3 Mixture	15	75	Less than 1% by weight	Less than 1% by weight	55

NOTE 1.—Mixtures of grass seeds not designated by the sender as lawn or turf grass mixtures shall be graded under this table.

2.—Column 5 does not apply to mixtures containing 1 per cent or more of sweet clover seed.

3.—No. 1 Mixture may contain one primary noxious weed seed per ounce when there is present singly, or combined, 10% or more of Timothy, Canada Bluegrass, Kentucky Bluegrass or Red Top Seed.

## BEEF GRADES

*The Beef grading regulations are administered by the Livestock and Livestock Products Division, Production and Marketing Branch, Canada Department of Agriculture.*

**CANADA CHOICE (Red Brand)**—This grade shall include only choice carcasses of steers and heifers having the following characteristics: excellent conformation, finish and quality. The carcasses shall be relatively blocky, heavily and uniformly fleshed throughout. Rounds, loins, ribs, chucks and plates shall be very thick and heavily fleshed. The neck shall be short and well filled. Shanks shall be well muscled.

The flesh shall be firm, velvety, fine-grained, and of an attractive light or cherry red colour. There shall be marked indications of youth in the chine, sternum, sacrum and aitch bones.

The bones shall be soft, red and porous. The pearl-like cartilage on the tips of the chine bones may have slight granulation in the upper front dorsal area. Pearl-like capping cartilage shall be present on the lumbar vertebrae. The exterior surface of the carcass shall be covered with firm fat, white or slightly tinged with reddish or amber colour. This fat should be fairly smooth and reasonably uniform in thickness.

Carcasses from fed calves and steers and heifers of light weight may have a lesser degree of finish than heavier carcasses. The degree of finish may increase with the weight of carcass.

Any excess proportion of fat to lean at any weight shall debar a carcass from this grade.

**CANADA GOOD (Blue Brand)**—This grade shall include only good carcasses of steers and heifers having the following characteristics: Good conformation, finish and quality. Rounds, loins and ribs shall be reasonably full. Chucks and plates shall be moderately thick. The neck shall be reasonably short and thick.

The flesh shall be at least moderately firm.

The colour shall not be excessively dark.

There shall be marked indications of youth in the chine, sternum, sacrum and aitch bones.

The bones shall be soft, red and porous. The pearl-like cartilage on the tips of the chine bones may have slight granulation in the upper dorsal area. Pearl-like capping cartilage shall be present on the lumbar vertebrae.

The fat covering shall extend well over the exterior surfaces but may be somewhat lacking on the neck and lower parts of the rounds, shoulders and shanks. The fat covering should be reasonably firm, smooth and white but may be somewhat soft or have a yellowish tinge. Carcasses from fed calves and steers and heifers of light weight may have a lesser degree of finish than heavier carcasses. The degree of finish may increase with the weight of carcass.

Any excess proportion of fat to lean at any weight shall debar a carcass from this grade.

**CANADA STANDARD (Brown Brand)**—This class shall include only carcasses of steers and heifers having the following characteristics: top medium or better conformation, finish and quality, being slightly deficient in one or more of these factors as compared to grade Good; at least moderate depth of fleshing in ribs, loins, and rounds; only a slight tendency to angularity, with hip and shoulder points no more than barely noticeable. The flesh shall be at least moderately firm and the colour may range from bright red to somewhat darker red.

There shall be marked indications of youth in the chine, sternum, sacrum and aitch bones. The bones shall be soft, red and porous. The pearl-like cartilage on the tips of the chine bones may have slight granulation in the upper dorsal area. Pearl-like capping cartilage shall be present on the lumbar vertebrae.

While the fat covering in general for this grade shall be somewhat lighter than that for Grade Good it shall in no case exceed that for the average of Good Grade. The fat covering shall extend over most of the exterior surface and may be firm to slightly soft and of a white or pale yellow colour.

Any excess proportion of fat to lean at any weight shall debar a carcass from this grade.

**CANADA COMMERCIAL — CLASS 1**—This class shall include only carcasses of steers and heifers having the following characteristics: Low medium general quality, carcass relatively long in proportion to width and inclined to be slightly angular; hip and shoulder points noticeable but not prominent; moderate fleshing but somewhat less than the minimum for Standard grade. There shall be marked indications of youth in the chine, sternum, sacrum, and aitch bones. The bones shall be soft, red and porous. The pearl-like cartilage on the tips of the chine bones may have slight granulation in the upper dorsal area. Pearl-like capping cartilage shall be present on the lumbar vertebrae.

There shall be at least a fair fat covering over most of the exterior surface.

An excess proportion of fat to lean shall debar a carcass from this class.

**CANADA COMMERCIAL — CLASS 2**—This class shall include carcasses of young cows and aged heifers having medium or better conformation, finish and quality. Rounds shall be thick, loins may be somewhat flat; rib, chuck, plate and brisket moderately thick; hip and shoulder points slightly prominent but well covered. There shall be progressively better conformation as age approaches the maximum for the class. The flesh shall be firm, fine grained and of good colour.

Hind quarters shall have cartilage on the tips of the lumbar vertebrae, or a red line where the capping cartilage was present, indicating that ossification was only recently completed. On the front quarters, while there may be considerable ossification, some pearl-like cartilage must be in evidence on the tips of the dorsal vertebrae and on the sternum bone. The exterior fat shall extend well over the carcass without excessive waste or patchiness, and shall be firm, creamy or yellowish in colour.

**CANADA COMMERCIAL — CLASS 3**—This class shall include only carcasses of steers, heifers, and young cows which are overfat and wasty, and which meet conformation and age requirements above those for Utility grade.

**CANADA UTILITY — CLASS 1**—This class shall include only carcasses of steers, heifers and young cows of common quality; conformation may be somewhat rangy, angular, and irregular; all parts may be thinly fleshed providing there is at least fair proportion of meat to bone. There shall be progressively better conformation as age approaches the maximum for the Class.

Hind quarters shall have cartilage on the tips of the lumbar vertebrae, or a red line where the capping cartilage was present, indicating that ossification was only recently completed. On the front quarters, while there may be considerable ossification, some pearl-like cartilage must be in evidence on the tips of the dorsal vertebrae and on the sternum bone. There shall be at least a slight fat covering over the ribs and loins.

**CANADA UTILITY — CLASS 2**—This class shall include only carcasses of mature cows of medium or better conformation; finish and quality, having advanced beyond the age eligible for Commercial Class 2.

Carcasses shall be fairly well fleshed on the hips, steak pieces, and chucks, with an exterior fat covering over the loins and ribs, extending at least moderately well over the chucks and rounds, providing that somewhat less covering is acceptable in carcasses having indications of youth.

An excess proportion of fat to lean shall debar a carcass from this grade.

**CANADA UTILITY — CLASS 3**—This class shall include only cow carcasses not eligible for Class 2 but above "Manufacturing" quality.

**CANADA MANUFACTURING — (Canners)**—This grade shall include only carcasses of steers, heifers, or cows. Cow carcasses constitute a large proportion of the beef eligible for this grade.

The quality shall be below that specified for Utility grade and for the most part shall include beef not suitable for sale as carcasses. There may be a large proportion of bone to flesh and exterior fat covering may be absent.

**CANADA BULL**—This grade shall include only the carcasses of stags and bulls.

## GRADES FOR HOG CARCASSES

*The hog grading regulations are administered by the Livestock Division, Production and Marketing Branch, Canada Department of Agriculture.*

**CANADA GRADE A** — Are hog carcasses having the following characteristics: choice quality and conformation, lengthy, and lean throughout; shoulder smooth and comparatively light in weight; belly well muscled with thick flank, uniform in width and free from seediness; ham heavily muscled and lean; back fat comparatively uniform in thickness, but not deficient; in addition to meeting back fat specifications carcasses must be free of any thick deposits of fat; flesh firm, fine grained and bright in colour; fat firm and white; and skin smooth, and without extensive areas of dark hair roots or pigment.

**CANADA GRADE B** — Are hog carcasses having the following characteristics: shoulder slightly heavy or slightly fat; belly slightly uneven, somewhat thin, wrinkles, fat, or wide, and free from sponginess; ham a little thin or slightly fat; back fat slightly uneven or slightly deficient; fleshing reasonably firm, fine grained and bright in colour; and skin that is not rough, or coarse in texture.

**CANADA GRADE C** — Are hog carcasses having the following characteristics: may be short, thick, heavy shouldered and round ribbed; there may be a greater degree of fat to lean and more unevenness of fat covering as compared to Canada Grade B; the fat may be slightly soft or slightly deficient; and carcasses of young females of good quality with slight mammary development may be included.



CANADA GRADE D — Are hog carcasses which weigh less than 90 pounds, or are thin and underfinished, or have serious physical damage or injury, or are dark fleshed, rough, soft, or oily.

CANADA LIGHT — Are hog carcasses which have reasonably good quality and are not very thin or rough.

CANADA HEAVY — Are hog carcasses which have reasonably good quality; and are not very thin or rough.

CANADA EXTRA HEAVY — Are hog carcasses which have reasonably good quality; and are not very thin or rough.

CANADA RIDGLING — Are hog carcasses having one or more internal testicles, or are hermaphrodites.

CANADA STAG — Are hog carcasses from mature boars which have been castrated.

CANADA SOW — Class 1 — Are carcasses of female with pronounced mammary development having good fleshing and finish throughout, with no excess proportion of fat, and no excessive waste in the underline; and are not thin or rough.

CANADA SOW — Class 2 — Are carcasses of females with pronounced mammary development which are not eligible for Sow — Class 1.

# Weights and Measurements for the Grades for Hog Carcasses

Canada Grade	Carcass Weight	Minimum Length	Maximum Shoulder Fat	Maximum Loin Fat
GRADE A	135 lbs. or over but not over 150 lbs.	29-29½ ins.	1¾ ins.	1¼ ins.
	over 150 lbs. but not over 170 lbs.	29½-30 ins.	2 ins.	1½ ins.
GRADE B	125 lbs. or over but not over 150 lbs.	28-28¾ ins.	1¾-2¼ ins. according to wt.	1½-1¾ ins. according to wt.
	over 150 lbs. but not over 180 lbs.	29-30 ins.	2¼-2½ ins. according to wt.	1¾-2 ins. according to wt.
GRADE C	125 lbs. or over but not over 180 lbs.			
GRADE D	All weights			
LIGHT	90 lbs. or over but less than 125 lbs.			
HEAVY	Over 180 lbs. but not over 195 lbs.			
EXTRA HEAVY	Over 195 lbs.			
RIDGLING	All weights			
STAG	All weights			
SOW — Class 1 — Class 2	All weights			

## CORRESPONDING CARCASS WEIGHTS FOR LIVE HOG WEIGHTS AT VARIOUS YIELDS

Live Weight	DRESSING PERCENTAGE											
	70%	71%	72%	73%	74%	75%	76%	77%	78%	79%	80%	
170 lb.	119	121	122	124	126	127	129	131	133	134	136	
180 lb.	126	128	130	131	133	135	137	139	140	142	144	
190 lb.	133	135	137	139	141	142	144	146	148	150	152	
200 lb.	140	142	144	146	148	150	152	154	156	158	160	
210 lb.	147	149	151	153	155	157	160	162	164	166	168	
220 lb.	154	156	158	161	163	165	167	169	172	174	176	
230 lb.	161	163	166	168	170	172	175	177	179	182	184	
240 lb.	168	170	173	175	178	180	182	185	187	190	192	
250 lb.	175	177	180	182	185	187	190	192	195	197	200	

## GRADES FOR LAMB CARCASSES

**CANADA CHOICE**—Carcasses having excellent conformation, finish and quality, relatively blocky and compact, with short, plump legs, broad thick backs, thick full loins, ribs and chucks and short plump necks; loins, ribs, legs and shoulders well covered but not excessively fat.

**CANADA GOOD**—Carcasses having good conformation, finish and quality; well proportioned and reasonably plump; loins, ribs, legs and shoulders well covered but not excessively fat.

**CANADA COMMERCIAL**—Carcasses having fair conformation, finish and quality; somewhat rangy and angular in conformation; having at least a moderately light fat covering which may be unevenly distributed; may include overfinished carcasses.

**CANADA UTILITY**—Carcasses having poor conformation, finish and quality, but having at least some traces of exterior fat covering; may include excessively overfinished carcasses.

### CANADA CULL

1. Lacking finish, quality and general conformation.
2. Having serious physical injury.

3. Having spear-grass infestation.

4. Coarse and lacking in quality.

Male lambs which have not been castrated will be graded as above but will also be designated as "Bucks".

### **GRADES FOR MUTTON CARCASSES**

**CANADA CHOICE**—Carcasses having excellent conformation, finish and quality, with short plump legs, thick loins and ribs, fully fleshed shoulders, and thick breast; a smooth, well distributed fat covering, interior fats plentiful; all fats cream colored and brittle, but not excessive or patchy.

**CANADA GOOD**—Carcasses having good conformation, finish and quality; well proportioned and reasonably plump; a fairly uniform fat covering which may be slightly deficient or slightly excessive, but not extremely fat or patchy.

**CANADA COMMERCIAL**—Fair conformation, finish and quality; may be comparatively narrow, lengthy and angular; some fat covering over the back, loins and rump.

**CANADA UTILITY**—Poor conformation, finish and quality; narrow, thinly fleshed, and lacking in finish; bone white and flinty; flesh coarse, soft or flabby.

**CANADA MANUFACTURING**—Excessively over-fat.

**CANADA CULL**—Culls, due to extremely poor finish and quality, usually from old ewes; or serious physical injury.

**CANADA BUCK**—Carcasses of mature male sheep.

### **WEIGHT CLASSES OF LAMB AND MUTTON CARCASSES**

#### **Lamb**

**Canada Choice and Canada Good.**

Class 1—Not less than 36 lbs. and not more than 51 lbs.

Class 2—More than 51 lbs. and not more than 56 lbs.

Class 3—More than 56 lbs.

Class 4—Less than 36 lbs.

**Canada Commercial.**

Class 1—36 lbs. and over.

Class 2—Less than 36 lbs.

**Lower Grades**—All weights.

## **Mutton**

### **Canada Choice and Canada Good.**

Class 1—Not more than 70 lbs.

Class 2—More than 70 lbs. and not more than 85 lbs.

Class 3—More than 85 lbs.

### **Canada Commercial.**

Class 1—Not more than 70 lbs.

Class 2—More than 70 lbs.

**Lower Grades**—All weights.

## **BUTTER AND CHEESE GRADES**

*The regulations governing the grading of creamery butter and cheese are administered by the Dairy Products Division, Production and Marketing Branch, Canada Department of Agriculture.*

## **STANDARDS FOR GRADES OF CREAMERY BUTTER**

Four grades of creamery butter are established with the following grade names:

- (a) Canada First Grade
- (b) Canada Second Grade
- (c) Canada Third Grade; and
- (d) Below Canada Third Grade.

Any butter in these designated grades shall contain not more than 16% water, not less than 80% milk fat and no fat other than that of milk.

**CANADA FIRST GRADE** — Flavour, clean with no objectionable flavour. Total score 92 — Minimum score for flavour, 39.

**CANADA SECOND GRADE** — Creamery butter that does not qualify for Canada First Grade and has the following flavour characteristics "Slightly unclean or slightly weedy, but no stinkweed or other pronounced weedy flavour, or other slight flavour defects". Total score 87 and under 92, minimum score for flavour, 37.

**CANADA THIRD GRADE** — Flavour very stale or other flavours too pronounced for Canada Second Grade butter and not classed as Below Canada Third Grade. Total score under 87.

**BELOW CANADA THIRD GRADE** — Any very objectionable flavours or with dirt or foreign matter or mold on or in the butter or otherwise inferior to Canada Third Grade. No score given.

## STANDARDS FOR GRADES OF CHEESE

Four grades for cheddar cheese are established with the following grade names:

- (a) Canada First Grade
- (b) Canada Second Grade
- (c) Canada Third Grade; and
- (d) Below Canada Third Grade.

Any cheese in these designated grades shall contain, on a dry basis, not less than 48% milk fat, no fat other than that of milk. (In addition, grades for cheddar cheese are now related to the test for extraneous matter.)

**CANADA FIRST GRADE** — Flavour — clean with no objectionable flavour. Total score 92 — Minimum score for flavour, 39. — Extraneous disc 1 or 2.

**CANADA SECOND GRADE** — Cheese that does not qualify for Canada First Grade and has a fruity, or not clean, or slightly rancid, or slightly off or "off" or turnip-like, or otherwise objectionable flavour. Total score 87 and under 92, minimum score for flavour, 37. — Extraneous disc 3.

**CANADA THIRD GRADE** — Flavour — rancid or badly "off" or otherwise inferior to Canada Second Grade, excluding the flavours characteristic of cheese Below Canada Third Grade. Total score under 87. Flavour under 37. — Extraneous disc 4.

**BELOW CANADA THIRD GRADE** — Any very objectionable flavour such as very sour, gasoline, kerosene, garlic, stinkweed or other strong weedy flavour comparable to stinkweed, seriously contaminated by vermin or otherwise and inferior to Canada Third Grade, or which contains foreign matter. No score given.

**NOTE**—For exact grade definitions and standards of butter, cheese and dry skim milk and standards for ice cream, please refer to Regulations under the Canada Dairy Products Act, proclaimed the 15th of July, 1952.

## CREAM GRADES

*Cream grading regulations are under Government jurisdiction. They are administered within each province by the Dairy Branches of the respective Provincial Departments of Agriculture.*

The following grade names apply to the grading of cream for purchases at creameries in the three prairie provinces. Actually the wording of the

grade descriptions varies slightly in different provinces, but is similar in effect. Manitoba does not have Table Cream classified in their regulation.

**TABLE CREAM** includes any lot of cream (1) that is sweet, clean flavored and non frozen, (2) that is bought for resale for household use, (3) that is produced under conditions that comply with a special requirement of the municipality in which it is to be sold for consumption, and (4) that has an acidity of not more than twenty one hundreds of one per cent (.20%) at the time of grading.

**SPECIAL GRADE** shall include any lot of cream (1) that is clean in flavor and of uniform consistency and non frozen; and (2) that has a content of lactic acid not exceeding thirty one hundreds of one per cent (.30%) at the time of grading.

**FIRST GRADE**, which shall include any lot of cream (1) that does not meet the requirements specified for Special Grade cream; (2) that is reasonably clean in flavor and of uniform consistency; (3) that is suitable for making into Canada First Grade butter; and (4) that has a content of lactic acid not exceeding sixty one hundreds of one per cent (.60%) at the time of grading; or (5) that if slightly frozen, will melt to a uniform consistency.

**SECOND GRADE**, which shall include any lot of cream that does not meet the requirements specified for First Grade cream, such as cream that is stale, metallic, unclean, bitter, weedy or cream that has been badly separated as a result of being frozen.

**OFF GRADE** includes any lot of cream with a very objectionable odor or flavor such as kerosene, gasoline, stinkweed, onions or other such flavor that may render cream unfit for making into Second Grade butter. (Alberta and Saskatchewan only.)

*Churning Cream. Special, First and Second Grades of cream are the general grades used for churning butter.*

Cream shall be rejected if in the opinion of a licensed grader or inspector it (a) is unsanitary; or (b) contains any contaminating or foreign substance; or (c) appears unfit for human consumption; or (d) is shipped in a container that has been

rejected; or (e) that has an objectionable odor or flavor, such as kerosene, gasoline or other flavor that may render it unsuitable for manufacturing into Canada Second Grade butter. (Manitoba and Alberta).

A cream Grader or Inspector who rejects cream at a dairy manufacturing plant shall (a) attach to the container a tag showing the reason for rejection; (b) add a harmless coloring matter to the cream and (c) return the cream to the patron.

## **STANDARDS FOR MILK FOR MANUFACTURING PURPOSES**

GRADE I milk shall be sweet and clean in flavour and odour; be of uniform consistency; be free from evidence of blood or impurities due to mastitis, sickness, or other contamination; contain no antibiotics or pesticide residue; contain less than 1.0 mg. of sediment per every sixteen fluid ounces by weight determined by an approved test; and have a reduction time of two hours or more by the triple reading resazurin test.

GRADE II milk shall conform to the standards set out for Grade I milk except that it shall contain less than 2.0 mg. of sediment per every sixteen fluid ounces by weight determined by an approved test; and have a reduction time by the triple reading resazurin test of one to two hours.

Every dairy barn shall conform to the following standards: be provided with adequate lighting and ventilation; be kept clean at all times; have bedding that is fresh, clean, dry and free from excessive dust; house no swine or fowl; and be provided with a separate area for use only as an area for the handling of milk and cream.

Every patron or person owning or having control of a place or premises where milk is produced or handled shall keep such place or premises free from insects and rodents.

No patron shall use milk handling equipment unless it is thoroughly cleansed of all dirt and milk deposits and is sanitized with an approved sanitizer.

## **HONEY GRADES**

*The honey grading regulations are administered by the Fruit and Vegetable Division of the Production and Marketing Branch, Canada Department of Agriculture. Under these regulations it is compulsory for every person who packs, transports, ships, advertises, displays, sells, has in his possession for*



*sale, or offers for sale, to grade, pack in prescribed standard containers and to properly and legibly mark the containers and packages as required by the Honey regulations.*

**NO. 1 GRADE** shall be free from damage and free of foreign material; of moisture content not exceeding 17.8 per cent; or with a minimum specific gravity reading of 1.4184 at 68 degrees Fahrenheit referred to water at the same temperature, in the domestic classes of "White," "Golden," "Amber" and "Dark" and in the export classes of "Extra White," "White" and "Golden" and, of moisture content not exceeding 18.6 per cent, or with a minimum specific gravity reading of 1.4129 at 68 degrees Fahrenheit referred to water at the same temperature, in the export classes of "Light Amber," "Dark Amber" and "Dark."

**NO. 2 GRADE** which shall be free from serious damage and fairly free of foreign material; of moisture content not exceeding 18.6 per cent, or with a minimum specific gravity reading of 1.4129 at 68 degrees Fahrenheit referred to water at the same temperature.

**NO. 3 GRADE** consisting of honey which does not meet the requirements of the foregoing grades but is free from serious damage and fairly free of foreign material and of moisture content not exceeding 20 per cent, or with a minimum specific gravity reading of 1.4033 at 68 degrees Fahrenheit referred to water at the same temperature.

Honey otherwise meeting the requirements of the above grades may be of moisture content not exceeding 20 per cent if pasteurized in an establishment registered with the Department and marked as required.

When honey is granulated, it may, at the option of the packer, be further graded as being of fine, medium or coarse texture, but no honey shall be so marked until it is granulated.

### **POTATO GRADES**

*The potato grading regulations are administered by the Fruit and Vegetable Division of the Production and Marketing Branch, Canada Department of Agriculture. Under these regulations grading, packing in standardized containers and proper marking is compulsory. The name and address of the packer, the words "Table Potatoes", the grade and net weight must appear on all packages. As of July 15, 1957, all potatoes*

*designated for sale as Canada No. 1 Large, Canada No. 1, or Canada No. 1 Small, shall be packed or packaged in new containers.*

**CANADA NO. 1** — Are potatoes of similar varietal characteristics; firm; not materially pointed, materially dumbbell-shaped or otherwise materially deformed; have skins that will not loosen readily during ordinary handling; not more than 10 per cent of which more than 10 per cent of the surface flesh exposed; reasonably clean; free from dumbbells, specimens from which knobs have been removed, blight, hollow heart, sprain, bacterial ring rot or other decay; free from damage; for round varieties a minimum diameter of  $2\frac{1}{4}$  inches and a maximum diameter of 4 inches except that in a package containing 25 pounds or less the maximum diameter shall be  $3\frac{1}{2}$  inches, and for long varieties a minimum diameter of 2 inches and a maximum diameter of  $3\frac{1}{2}$  inches except that for potatoes exceeding  $3\frac{1}{2}$  inches in length the minimum diameter may be  $1\frac{3}{4}$  inches; and are properly packed.

**CANADA NO. 1 LARGE** — Are potatoes that have a minimum diameter of 3 inches and a maximum diameter of  $4\frac{1}{2}$  inches but that in all other respects comply with the requirements of Canada No. 1 Grade.

**CANADA NO. 1 SMALL** — Are potatoes that have a minimum diameter of  $1\frac{1}{2}$  inches and a maximum diameter of  $2\frac{1}{4}$  inches but that in all other respects comply with the requirements of Canada No. 1 Grade.

**CANADA NO. 2** — Are potatoes of similar varietal characteristics; reasonably firm; not seriously pointed, seriously dumbbell-shaped or otherwise seriously deformed; free from dumbbells, specimens from which knobs have been removed, sprain, hollow heart, bacterial ring rot or other decay; free from damage; have a minimum diameter of  $1\frac{3}{4}$  inches and a maximum diameter of  $4\frac{1}{2}$  inches; have at least 75 per cent of the lot with a diameter of not less than 2 inches; not more than one-third by weight of which are seriously affected by dirt; and are properly packed.

**NOTE:** Potatoes of  $1\frac{7}{8}$  inches minimum diameter which fail to meet maturity requirements shall be allowed until September 15 of each crop year.

## **VEGETABLE GRADES**

According to the Manitoba Vegetable Sales Act "All produce moving from point to point within the province must be packed, graded and marked as per the regulations, except for produce permitted to move to a manufacturing or processing plant." Detailed information with respect to tolerances by weight for variations incident to commercial grading and handling will be found in the Manitoba Vegetable Sales Act, copies of which may be obtained from the Manitoba Provincial Horticulturist, Legislative Building, Winnipeg. Under these regulations grading, packing in standardized containers and proper marking of beets, carrots, onions, parsnips and turnips is compulsory.

### **BEEET GRADES**

**CANADA NO. 1** — Are beets of similar varietal characteristics which are firm but not woody, well trimmed, fairly smooth, well shaped and reasonably clean; free from decay and freezing injury; free from damage caused by sunburn, sprouts, cuts, growth cracks, insects, rodents, disease or other injury or defects; of minimum diameter  $1\frac{1}{4}$  inches and maximum diameter 3 inches unless otherwise specified, when the minimum diameter shall be 1 inch; properly packed.

**CANADA NO. 2** — Are beets of similar varietal characteristics which are firm, but not woody, well trimmed, not badly misshapen; free from decay and freezing injury; free from serious damage caused by dirt, sprouts, cuts, growth cracks, insects, rodents, disease or other injury or defect; of minimum diameter  $1\frac{1}{4}$  inches unless otherwise specified, when the minimum diameter shall be 1 inch; properly packed.

**NOTE:** Any specified size other than as prescribed under Canada No. 1 and Canada No. 2 shall be plainly marked on the container or on a tag attached thereto.

### **CARROT GRADES**

**CANADA NO. 1** — Are carrots of similar varietal characteristics which are firm but not woody, well trimmed, fairly smooth, well shaped and reasonably clean; free from decay and freezing injury; free from damage caused by sunburn, sprouts, cuts or cut crowns, growth cracks, insects, rodents, disease, mechanical

or other injury or defect; of minimum length  $3\frac{1}{2}$  inches; of minimum and maximum diameters, unless otherwise specified —  $\frac{3}{4}$  to  $1\frac{3}{4}$  inches with the additional grade designation "Small";  $1\frac{1}{4}$  to  $2\frac{1}{4}$  inches with the additional grade designation "Medium";  $1\frac{3}{4}$  to  $2\frac{3}{4}$  inches with the additional grade designation "Large"; (any specified size range other than as prescribed hereof shall be plainly marked on the container or on a tag attached thereto); properly packed.

**CANADA NO. 1 — CUT CROWNS** — Are carrots which otherwise meet all the requirements of Canada No. 1 grade, but with the crown or shoulder removed.

**CANADA NO. 2** — Are carrots of similar varietal characteristics which are firm, but not woody, well trimmed, not badly misshapen; free from decay and freezing injury; free from serious damage caused by dirt, sprouts, cuts, growth cracks, insects, rodents, disease, mechanical or other injury or defect; of minimum diameter 1 inch; properly packed.

### **ONION GRADES**

**CANADA NO. 1** — Are onions that have similar varietal characteristics; cured so that the neck is well dried; firm; free from thick necks, seed stems, root growth, sprouts and decay; free from specimens the shape of which clearly indicates more than one centre of growth; free from damage; have, when one of the additional grade designations is not used in connection with the onions, a minimum diameter of  $1\frac{3}{4}$  inches and a maximum diameter of 3 inches, or a minimum diameter of  $1\frac{3}{4}$  inches and (a) conform to a size range marked on the package in which they are packed, or on a tag attached thereto, (b) are packed in a transparent package, or (c) are in a bulk display in a retail store, are properly packed. Additional grade designations: "Small" — minimum diameter of  $1\frac{1}{4}$  inches and a maximum diameter of  $1\frac{3}{4}$  inches; "Jumbo" — minimum diameter of 3 inches; in the case of onions having a minimum diameter of  $2\frac{1}{4}$  inches or greater the size may be designated as " $2\frac{1}{4}$  inches and up", or as the case may be.

**CANADA NO. 1 PICKLING** — Are onions that have similar varietal characteristics; cured so that the neck is moderately dried; yield only slightly to moderate pressure; free from thick

necks, seed stems, root growth, sprouts, ovoid specimens and decay; free from specimens the shape of which clearly indicates more than one centre of growth; free from damage; have a minimum diameter of  $\frac{1}{2}$  inch and a maximum diameter of 1 inch, or if the additional grade designation "Large" is used, a minimum diameter of  $\frac{1}{2}$  inch and a maximum diameter of  $1\frac{1}{2}$  inches; and are properly packed.

**CANADA NO. 2** — Are onions that have similar varietal characteristics, cured so that the neck is moderately dried; yield only slightly to moderate pressure; free from thick necks, seed stems and decay; free from specimens the shape of which clearly indicates more than one centre of growth; free from damage; have a minimum diameter of  $1\frac{3}{4}$  inches; and are properly packed.

**NOTE:** Any specified size range other than as prescribed under Canada No. 1 and Canada No. 2 shall be plainly marked on the container or on a tag attached thereto. When onions are graded Canada No. 1 they must be packed in new containers, Canada No. 2 may be packed in used containers with old marks obliterated.

### **PARSNIP GRADES**

**CANADA NO. 1** — Are parsnips of similar varietal characteristics which are firm but not woody, well trimmed, fairly smooth, fairly well shaped and reasonably clean; free from decay and freezing injury; free from damage caused by discoloration, sprouts, cuts, growth cracks, pithiness, insects, rodents, disease, mechanical or other injury or defect; of minimum length 5 inches; unless otherwise specified of minimum diameter  $1\frac{1}{4}$  inches and maximum diameter of 3 inches; (any specified size range other than as prescribed hereof shall be plainly marked on the container or on a tag attached thereto); properly packed.

**CANADA NO. 1 — CUT CROWNS** — Are parsnips which otherwise meet the requirements of Canada No. 1 grade but with the crown or shoulder removed.

**CANADA NO. 2** — Are parsnips of similar varietal characteristics which are firm but not woody, well trimmed, but not badly misshapen; free from decay and freezing injury; free from serious damage caused by discoloration, dirt, secondary roots, bruises, cuts, growth cracks, pithiness, insects, rodents, disease, mechanical

or other injury or defect; of minimum diameter  $1\frac{1}{4}$  inches; properly packed. All grades may be packed in used containers with old marks obliterated.

### **TURNIP OR RUTABAGAS GRADES**

**CANADA NO. 1** — Are turnips or rutabagas (waxed or unwaxed) of similar varietal characteristics which are firm, well trimmed, fairly smooth and fairly well shaped; free from soft rot; free from damage caused by freezing, pithiness, water core, black rot, dry rot, disease, insects, growth cracks, cuts, dirt, mechanical or other injury or defect; properly packed.

**NOTE:** Turnips or rutabagas may be packed to any designated size range if so marked, or to any of the following size ranges which for trade purposes may be designated as Small, 2 to 4"; Small Medium,  $3\frac{1}{2}$  to 5" (until August 31 inclusive in each crop year a size range of 3 to  $5\frac{1}{2}$ " is permitted); Medium, 4 to 6"; and Large, 5" and up.

### **CABBAGE GRADES**

**CANADA NO. 1** — Is cabbage of similar type in any lot, well trimmed and reasonably firm, not withered or burst; free from damage caused by discolouration, freezing, disease, insect or other injury or defects. Fairly uniform in size, properly packed and free from soft rot and seed stems, and when graded as Canada No. 1 must be packed in a new container.

**CANADA NO. 2** — Is cabbage that is of similar type in any lot, well trimmed and reasonably firm, not withered or burst; free from soft rot and seed stems, free from serious damage caused by discolouration, freezing, disease, insect or other injury or defects and properly packed; and when packed as Canada No. 2 may be in a used container with old marks obliterated.

### **CAULIFLOWER GRADES**

**CANADA NO. 1** — Is Cauliflower neatly trimmed, compact, fairly uniform in size, has fresh green leaves attached, is not ricey, fuzzy or over mature; has no discolouration, is free from damage caused by dirt or other foreign matter, bruises, insects, disease, mechanical injury or other injury or defects, and properly packed; and when graded Canada No. 1

must be packed in a new container.

**CANADA NO. 2** — is Cauliflower that is free from serious injury caused by being over-mature, discolouration, dirt or other foreign matter, bruises, insects, disease, mechanical injury or other injury or defects and properly packed; and when graded Canada No. 2 may be packed in a used container with old marks obliterated.

### **SWEET CORN GRADES**

**CANADA NO. 1** — is Corn that is of similar varietal characteristics, well formed, well filled and well developed; free from damage caused by smut, insect or bird injury and mechanical or other injury; well covered with fresh unbroken green husks. Covered with kernels of edible corn for not less than four inches in each ear and properly packed.

Canada No. 1 Sweet Corn shall be packed in one of the following sizes: Small — when ears have four to five inches of kernels of edible corn, and Large — when the ears have five or more inches of the kernels of edible corn, and may be packed in a used container with old marks obliterated.

### **HEAD LETTUCE GRADES**

**CANADA NO. 1** — is Lettuce that is of similar varietal characteristics in any lot, fresh, firm, reasonably well trimmed and fairly uniform in size; free from split or burst heads, decay, tipburn, seed stems, brown blight, and doubles; free from damage caused by broken ribs, freezing, dirt, sunburn, discolouration, disease, aphids or other insects, mechanical injury or other injury or defects, and properly packed.

**CANADA NO. 2** — Is Lettuce of similar varietal characteristics in any lot, fresh and reasonably well trimmed; if of Big Boston type, fairly firm, and if of Iceberg type not less than seventy five per centum firm and the balance fairly firm; free from split or burst heads, decay, tipburn, seed stems, brown blight and doubles; free from serious damage caused by broken ribs, freezing, dirt, sunburn, discolouration, disease, aphids or other insects; mechanical injury or other injury or defects and properly packed, and when graded Canada No. 2 may be packed in a used container with old marks obliterated.

## FIELD TOMATO GRADES

**CANADA SELECT** — Are field tomatoes that are of one variety in any lot, sound, smooth, clean and well formed. In any lot at point of shipping of a uniform stage of maturity that conforms to mature, turning, semi-ripe, or firm ripe, free from blossoms, stem ends, scald, growth cracks, water blisters, ground spots, worm holes, disease, and scars that indent or misshape the tomatoes; free from damage caused by insects, or other injury or defects, properly packed and sorted into one of the following size ranges: (1) Two and one quarter inches in diameter to two and one half inches in diameter. (2) One and three quarters inches in diameter to two and one quarter inches in diameter. (3) One and one half inches in diameter to one and three quarters inches in diameter in which size range the package shall be marked with a minimum and maximum diameter.

**CANADA NO. 1** — Are Field Tomatoes that are of similar varietal characteristics in any lot. Sound, clean, well formed and reasonably smooth. In any lot at point of shipping of a uniform stage of maturity that conforms to mature, turning, semi-ripe, or firm ripe; free from disease, scald, water blisters, ground spots, stem ends and worm holes; free from damage caused by growth cracks, blossom ends, plant or stem rub, insects, or other injury or defects; properly packed and sorted into one of the following size ranges: (1) At least two inches in diameter. (2) One and one half inches in diameter to two inches in diameter, in which size range the packages shall be marked with the minimum and maximum diameter.

**CANADA NO. 2** — Are Field Tomatoes of similar varietal characteristics in any lot, sound and clean. In any lot at shipping point, of a uniform stage of maturity that conforms to mature, turning, semi-ripe or firm ripe; free from decay, water blisters, open wet cracks, badly misshapen specimens, rough specimens and rusted specimens; free from serious damage caused by bruises, sun scald, catfaced, growth cracks, disease, insects and other injury or defects; at least one and three quarters inches in diameter and properly packed.



Canada No. 2 Field Tomatoes when packed in baskets or hampers be designated as Canada Domestic. When immature tomatoes are packed green for pickling purposes they shall (except for maturity standards) meet standards of Canada No. 1 Field Tomatoes or Canada No. 2 Field Tomatoes, and in addition to all other markings the packages shall be clearly marked to designate the tomatoes as picklers or pickling tomatoes when tomatoes are packed used containers may be used with old marks obliterated.

### **SPECIFICATIONS FOR HATCHING EGGS**

*The regulations governing the grading of hatching eggs are administered by the Poultry Division, Production and Marketing Branch, Canada Department of Agriculture, Ottawa.*

**Eggs used for hatching shall weigh at least at the rate of 23 oz. per dozen individually and at least 24 oz. per dozen in tray lots, be clean, sound in shell, of good shell strength.**

Turkey hatching eggs shall at time of setting weigh at least 31 ozs. per dozen in tray lots and no egg shall weigh less than at the rate of 28 ozs. per dozen. Eggs shall be clean and sound in shell.

All other hatching eggs must be produced from hatching egg supply flocks that have been approved and accepted under the regulations of the Provincial Hatchery Supply Flock Policy.

### **CLASSIFICATION OF CHICKS AND POULTS**

*The regulations governing the production of chicks and poults sold by hatcheries are administered by the Poultry Division, Production and Marketing Branch, Canada Department of Agriculture, Ottawa.*

The following terms are prescribed for classification of chicks or poults:

- (1) Egg-type chicks — meaning chicks purchased for the production of eggs.
- (2) Broiler-type chicks — meaning chicks which will be marketed as broilers or fryers at approximately eight to ten weeks of age.
- (3) Broiler-type poults — meaning poults which will be marketed at approximately 16 weeks of age and weighing not more than 10 pounds eviscerated weight.
- (4) Meat-type poults — meaning poults that will be marketed at mature weights.

# SUMMARY OF GRADE STANDARDS FOR SHELL EGGS

The Egg Regulations are administered under the Canada Agricultural Products Standards Act

Production and Marketing Branch Canada Department of Agriculture, Ottawa

Grade	Weight Per dozen	Cleanliness and Soundness of Shell	Quality as Determined by Candling		
			Air Cells	Yolk Condition	Spots
A1—Extra Large Size Large Size Medium Size Small Size	The egg weighs at least $2\frac{1}{4}$ ozs. Each egg weighs at least 2 ozs. Each egg weighs at least $1\frac{3}{4}$ ozs. but less than 2 ozs. Each egg weighs at least $1\frac{1}{2}$ ozs. but less than $1\frac{3}{4}$ ozs.	Clean unbroken, normal in shape	Not in excess of one-eighth of an inch in depth and is immobile.	An indistinct yolk shadow, a small round yolk which maintains its position in the central part of the egg. Absence of mottled or grass yolks, visible germ spots.	No blood or meat spots.
	The egg weighs at least $2\frac{1}{4}$ ozs. Each egg weighs at least 2 ozs. Each egg weighs at least $1\frac{3}{4}$ ozs., but less than 2 ozs. Each egg weighs at least $1\frac{1}{2}$ ozs. but less than $1\frac{3}{4}$ ozs.	May have up to three stain spots if each spot does not exceed an area equivalent to one-eighth of an inch by one-sixteenth of an inch and is otherwise clean, is practically normal in shape but may have rough areas and ridges other than heavy ridges, sound in construction.	An air cell that is not floating and is not in excess of three-sixteenths of an inch in depth.	An indistinct yolk outline. A round yolk which is reasonably well centered. Absence of mottled or grass yolks, germ development.	No blood or meat spots.
A—Extra Large Size Medium Size Small Size Peewee Size					

# SUMMARY OF GRADE STANDARDS FOR SHELL EGGS (Cont.)

Grade	Weight Per dozen	Cleanliness and Soundness of Shell	Air Cells	Yolk Condition	Spots
B—	The egg weights at least 13¼ ozs.	May show spots of dirt if the aggregate area of the dirt does not exceed one-sixteenth square inches and stain spots if the aggregate area of the stains does not exceed one-half square inch. May be slightly abnormal in shape, rough areas, definite ridges, sound in construction.	Not in excess of three-eighths of an inch in depth.	May show a distinct yolk outline. May show yolk which is moderately oblong in shape and which floats freely within the egg when twirled. Absence of grass yolks or any congealed albumen, but may have very slight degree of germ development.	No blood or meat spots.
C—	No minimum or maximum weight.	May be dirty or stained, irregular in construction. Shell free of cracks.	No maximum air cell size. Floating air cells permitted.	May show a prominent yolk outline. May show a yolk which is definitely oblong in shape but which does not adhere to the shell membrane. Shows absence of dark grass yolk.	Does not show meat or blood spots in excess of one-eighth of an inch in diameter

NOTE: Cracks—The shell is cracked but the internal contents are not leaking, and on candling, the egg meets the standards for at least Canada Grade C.

Rejects—Are eggs which are not eligible for any of the grades and include the following: Eggs contaminated with odours foreign to that of normal eggs; musty or mouldy eggs; eggs that have been in an incubator; and eggs that have the following defects — Black Rot, Blood Clot, Blood Ring, Bloody Eggs, Mixed Rot or Red Rot, Sour Rot, Spot Rot, White Rot, and foreign material.

Note— 2¼ ounces per egg is equivalent to 27 ounces per dozen.

2 ounces per egg is equivalent to 24 ounces per dozen.

1¾ ounces per egg is equivalent to 21 ounces per dozen.

1½ ounces per egg is equivalent to 18 ounces per dozen.

Optional Grades — Canada Grade A Small Size and Canada Grade A Peewee Size may be graded as Grade C.

# **CANADIAN STANDARD POULTRY GRADES**

The Dressed and Eviscerated Poultry Regulations are Administered Under the Canada

Agricultural Products Standards Act, Production and Marketing Branch, Canada Department of Agriculture, Ottawa

FAC- TOR	CANADA GRADE SPECIAL	CANADA GRADE A	CANADA GRADE B	CANADA GRADE UTILITY	CANADA GRADE C	CANADA GRADE D
C O N F O R M A T I O N	Normal Turkeys—Wing Tips may be removed. (All Grades)	Normal Slightly Crooked Keel — No meat interference.	Normal Slightly Crooked Keel — Meat at any point not lower than Grade B.	Wings—Com- pletely or partially re- moved. Legs—Only one leg with thigh "or" both drum- sticks removed. Tail, Removed at base. Limbs—Sev- ered at joints only.	Carcass — Whole	Carcass — Whole
	Breast—Plump-full. Slight Taper. Keel bone not to project more than 1/16" beyond flesh at Anterior end.	Moderately Plump — Moderate taper. Maximum projection Keel Anterior end — 1/8"	Sufficient to prevent sharp falling away from keel. Maximum projection of Keel — 1/8"	At least Grade B. Except small portion of flesh may be missing.	Sufficient to prevent ex- tremely sharp falling away from keel. Max. keel projec- tion—3/16".	Some flesh on both sides of keel
F A T	Capons, Fowl, Turkeys (O) Ducks, Geese—Breast, thighs, back well covered. Chicken — Thick deposit extending from base of neck into "v". Fat showing on rest of bird. Turkeys (U) — Breast, thighs back, reasonably well covered. Turkeys — No flabbiness.	Capons, Fowl, Ducks, Geese— Breast, thighs, back reasonably well covered. Chicken — Definite deposit base of neck extending un- broken in "v". Evidence over breast, thighs. Turkeys, (U) - Moderate cover- ing over breast, thighs, back. Turkeys (*O) - Breast, thighs reasonably well covered. Back moderately covered. Turkeys — Slight flabbiness.	Sufficient to prevent dark red appearance.  Canada Grade A (Fat Continued) Turkeys (O) - feather tract on side of breast, pronounced thickening of fat. Feather tract on back, sufficient fat for smooth appearance.	At least Grade B		

Tears	Kind	Wts	Breast	Else-where	Kind	Wts	Breast	Else-where	Kind	Wts	Breast	Else-where	Areas of skin missing not to exceed 1/2 area breast.	May have pins and discoloration caused by Pins	Same as Grade C					
	Chicken	(L)	1-1/4"	2-1/4"	Ducks	—	1-1/4"	2-1/2"	Chicken	—	2-1/2"	3-1/2"								
	Fowl	(H)	1-1/4"	2-1/2"	Chicken Capons	—	1-1/4"	2-1/2"	Capons Fowl Ducks	(U) (O)	2-1/2" 2-1/2"	3-1/2" 3-1/2"								
	Capons Ducks		1-1/4"	2-1/2"	Fowl	—	1-1/4"	3-1/2"	Geese	—	2-1/2"	3-1"								
	Geese		1-1/4"	2-3/4"	Geese	—	1-1/4"	2-1"	Turkeys	(U) (O)	2-1/2" 2-1/2"	3-1/2" 3-1"								
	Turkeys	(U) (O)	1-1/4" 1-1/4"	2-1/2" 2-3/4"	Turkeys	(U) (O)	1-1/4" 1-1/4"	2-1/2" 2-3/4"												
PINS	Breast 4		8	Elsewhere	Breast 5		10	Elsewhere	Breast 8		16	Elsewhere	Breast 8	16						
DISCOLORATION	No prominent discoloration				Breast Spots Total Area 4 —1/4 sq. in Elsewhere Spots Total Area 6 —1 sq. in				Breast Spots Total Area 6 —1 sq. in Elsewhere Spots Total Area 6 —1 1/4 sq. in.				Breast Spots Total Area 6 —1 sq. in Elsewhere Spots Total Area 6 —1 1/4 sq. in.							
					Poor Bleeding,— 1/2 distance from head to base of neck... Feather tract,— Amber or reddish tinge on back. Turkeys—, Light amber on keel max. 2" of dark scale. All Blue Back must be trimmed off (if possible) otherwise not allowed. A grey blue back con-sidered as ordinary discoloration.				Poor Bleeding,— Neck only Feather tract,— Amber or reddish tinge on back. Turkeys — Entire keel light amber and or scaly in nature. Blue back,— Dark pigmen-tation. Max. 2" forward from base of tail.				Similar to Grade B							
													Poor Bleeding Entire neck. Feather tract Amber or reddish on back. Turkeys — Dark pigmentation. Max. 8" from base of tail. Additional Area Limits. Breast — 2 1/4 sq. in. Else-where 2 1/4 sq. in.							

# CANADIAN STANDARD POULTRY GRADES (Cont.)

FAC- TOR	CANADA GRADE SPECIAL	CANADA GRADE A	CANADA GRADE B	CANADA GRADE UTILITY	CANADA GRADE C	CANADA GRADE D
Freezer Burn	Slight surface desiccation	Surface desiccation max. area — 2¼ sq. in.	Area of deep pitted desic- cation max. 2¼ sq. in. Turkeys 4 sq. in.	Same as Grade B	Allowed	Allowed
Dried Out Areas	NONE	NONE	Allowed	Allowed	Allowed	Allowed
Cysts	NONE	NONE	One small loose not dis- colored cyst.	Same as Grade B	No discolored cysts.	—
Broken Bones	NONE	NONE	NONE	Dislocated or broken wing or leg bones. Allowed	Allowed	Allowed

## CODED WEIGHTS TABLE

Weight Range		Weight Range	
Chicken "L"	Under 3½ lbs. Dressed Under 3 lbs. Eviscerated	Turkeys "U"	Under 11 lbs. Dressed Under 10 lbs. Eviscerated
	Over 3½ lbs. Dressed Over 3 lbs. Eviscerated		Over 11 lbs. and under 18 lbs. Dressed Over 10 lbs. and under 16 lbs. Eviscerated
Chicken "H"		Turkeys "O"	Over 18 lbs. Dressed Over 16 lbs. Eviscerated

# WOOL GRADES

The Wool Grading Regulations are administered by the Livestock Division,  
Production and Marketing Branch, Canada Department of Agriculture, Ottawa.

## GRADE STANDARDS

GRADE	WESTERN CANADA RANGE TYPE				WESTERN CANADA DOMESTIC TYPE		
	Choice X	Choice	Average X	Average	Bright	Semi-Bright	Dark
CANADA FINE STAPLE CANADA FINE CLOTHING CANADA 1/2 STAPLE CANADA 1/2 CLOTHING CANADA 3/8 STAPLE CANADA 3/8 CLOTHING CANADA 1/4 STAPLE CANADA LOW 1/4 STAPLE CANADA COARSE CANADA GREY-BLACK Fine, Medium, Coarse CANADA DEFECTIVE Chaff or Burry— Light—Fine, Medium Heavy Tags—Fine, Medium Cotts—Soft, Hard Locks—Fine, Medium Dead—Fine, Medium Damaged	Wool that is high yielding, bright and attractive in appearance. It must be well grown, sound, of good combing length, uniform in quality and practically free from visible earthy matter.	Wool must be well grown and attractive, sound and fairly uniform. Must be comparatively free from earthy matter.	Wool must be generally well grown but may contain some weathered tips and some earthy material. Heavier shrinking and darker in appearance than Choice.	Dark looking and heavy or very badly weathered and wasty. Usually contains a considerable amount of sand and dust.	Fleeces that are well grown with good colour and very light shrinking.	Fleeces that are average in character, rather dingy in appearance and carrying slightly more organic matter.	Fleeces that are dark coloured and quite heavy with sand or any other foreign material. Also includes wools that are badly "timber stained" or fleeces that are brashy and wasty.

WESTERN CANADA RANGE TYPE—Wool produced under range conditions in the four western provinces of Canada (predominantly Fine and 1/2 Staple—59s, 60s, 64s and up), and also occasional Fine and 1/2 Staple fleeces from farm flocks of Western Canada.

WESTERN CANADA DOMESTIC TYPE—Wool produced under farm conditions in Western Canada (predominantly 3/8 Staple and 1/4 Staple).

## FOX PELT GRADES

*The silver fox grading regulations are administered by the Livestock Division, Production and Marketing Branch, Canada Department of Agriculture.*

### STANDARD SILVER and WHITE — MARKED SILVER

#### Colour Phases:

**DARK** means less than 40 per cent of the area of the back of the pelt is covered with silver guard hairs.

**HALF SILVER** means 40 per cent to 60 per cent of the area of the back of the pelt is covered with silver guard hairs.

**THREE-QUARTER SILVER** means over 60 per cent to 80 per cent of the area of the back of the pelt is covered with silver guard hairs.

**SILVERY** means over 80 per cent to 95 per cent of the area of the back of the pelt is covered with silver guard hairs.

**FULL SILVER** means over 95 per cent of the area of the back of the pelt is covered with silver guard hairs.

#### GRADES:

**CANADA SELECT**—Pelts of extra good quality evenly furred, densely silvered (having regard to colour phase) of reasonably clear colour, primeness and character, and with only minor weaknesses permitted.

**CANADA GRADE A**—Pelts of good quality, character, and colour, with guard hair and underfur blending.

**CANADA GRADE B** — Pelts of average quality and character. They may be slightly off colour.

**CANADA GRADE C** — Pelts of fair quality, they may be open, weak furred, somewhat off colour and lacking in character.

**CANADA GRADE D** — Pelts of poor quality throughout and definitely lacking in character.

**REJECT**—Pelts of extremely low quality throughout, including culls and samsons.

#### NEW TYPES

##### Description:

**PLATINUM** — Pelts of a whitish steel grey colour with a sparse intermingling of dark hairs, the underfur having a light bluish grey shade, blending with the guard hairs, giving a rich platinum effect.

**PEARL PLATINUM**—Pelts of a bluish grey colour with underfur of the same general colour, and guard hairs having silver characteristics.



**WHITE-MARKED PEARL PLATINUM**—Pelts of a bluish grey colour with white markings on the head or shoulders, with underfur of the same general colour, and guard hairs having silver characteristics.

**Colour Phases:**

**DARK, MEDIUM, LIGHT, and EXTRA LIGHT**

**GRADES:**

**CANADA SELECT** — Pelts of extra good quality, evenly furred, of reasonably clear colour and character and with only minor weaknesses permitted.

**CANADA GRADE A**—Pelts of good quality, character and colour, with guard hair and underfur blending in colour.

**CANADA GRADE B** — Pelts of average quality and character. They may be slightly off colour.

**CANADA GRADE C** — Pelts of fair quality, they may be weak furred, somewhat off colour and lacking in character.

**CANADA GRADE D** — Pelts of poor quality throughout and definitely lacking in character.

**REJECT** — Pelts of extremely low quality throughout, including culls and samsons.

**NOTE** — With the exception of "Rejects" all of the above grades shall be classified into sizes as prescribed below:

**LARGE** — A large pelt should be 34 inches or more in length.

**MEDIUM** — A medium pelt should be at least 30 inches in length.

**SMALL** — All pelts below medium size.

All pelts should be measured from the nose to base of tail, and the width should be in proportion to the length.

### **BLUE FOX**

Pelts of a bluish grey colour with underfur of the same general colour.

**Colour Phases:**

**DARK, MEDIUM, PALE, and EXTRA PALE.**

## **GRADES:**

**CANADA SELECT**— Pelts of extra good quality, prime, evenly furred, of clear colour and character with good top fur. Complete finish of the pelt shall be given proper consideration.

**CANADA GRADE A** — Pelts of good quality and character, well furred and clear colour throughout, with good top fur and reasonably free of rubbed rumps.

**CANADA GRADE B** — Pelts of average quality and character, evenly furred and fairly clear colour.

**CANADA GRADE C** — Pelts of fair quality. They may be open, weak furred, somewhat off colour and lacking in character.

**CANADA GRADE D** — Pelts of low quality and definitely lacking in character.

## **HIDE GRADES**

*The following classifications for the purchasing of hides have been established by dealers.*

## **CATTLE HIDES**

**PACKER HIDES** — Are purchased from abattoirs basis No. 1 and No. 2 grades.

**COUNTRY HIDES** — Are purchased from country butchers and farmers basis No. 1, No. 2 and No. 3 grades.

**BRANDS** — Are from branded animals and are purchased on the basis of No. 1 and No. 2 grades.

**KOSHERS** — Are discounted  $\frac{1}{2}$  cent per pound since the throat is cut cross-wise partially destroying the pattern.

**GRUBBY** — Are badly damaged by warble flies.

**Grade No. 1** — Shall be free of cuts, wire or horn scratches, warts, or other bad damage, and be of good pattern.

**Grade No. 2**—May have deep scores or cuts, some damage to the grain through wire or horn scratches, and may be slightly off pattern.

**Grade No. 3** May have bad cuts, bad warble damage, be badly dragged, hairslipped, poorly patterned, or poorly slated. They are discounted 50%.

Hides are selected according to the following weights:

## **Packer Hides**

Heavy — 58 lbs. and over

Bufs — 43 to 57 lbs.

Extremes — 23 to 42 lbs.

Kipskins — 15 to 22 lbs.

Calfskins — 15 lbs. and under.

## **Country Hides**

Selected for weights in the case of Kipskins and Calfskins. Hides weighing over 60 lbs. are discounted.

## **HORSE HIDES**

**RENDERER'S TAKE-OFF** — Are purchased from renderers.

**COUNTRY TAKE-OFF** — Are purchased from farmers.

**Grade No. 1** — Shall be free of cuts and damage to grain, must contain full heads and shanks, and be of good pattern.

**No. 2** — May have 5 cuts, must be free of damage to grain, but may be off pattern.

**No. 3** — May have more than 5 cuts, damage to grain, be hairslipped, and badly off pattern.

## **HAY AND STRAW**

Official standards of quality and condition for Timothy and Clover Hay, Alfalfa and Alfalfa Mixed Hay, Grass Hay, Mixed Hay and Straw, have been established by the Canada Department of Agriculture.

Copies of the "Hay and Straw Inspection Act —with Official Hay Standards" may be obtained free from any district office of the Plant Products Division, Winnipeg, Saskatoon, or Edmonton; or from the Canada Department of Agriculture, Ottawa.

## TABLE OF FREIGHT RATES

Freight charges per bushel on different grains shown from all stations with given freight rates per 100 pounds. Ask our agent for freight rate from your shipping point.

Rate per 100 Lbs.	Rate per Bushel on				Flax	
	Wheat	Oats	Barley	Rye	Rate per 100 lbs.	Bushel
Cents	Cents	Cents	Cents	Cents	Cents	Cents
4	2.40	1.36	1.92	2.24	5½	3.08
5	3.00	1.70	2.40	2.80	6½	3.64
6	3.60	2.04	2.88	3.36	7½	4.20
7	4.20	2.38	3.36	3.92	8½	4.76
8	4.80	2.72	3.84	4.48	9½	5.32
9	5.40	3.06	4.32	5.04	10½	5.88
10	6.00	3.40	4.80	5.60	11½	6.44
11	6.60	3.74	5.28	6.16	12½	7.00
12	7.20	4.08	5.76	6.72	13½	7.56
13	7.80	4.42	6.24	7.28	14½	8.12
14	8.40	4.76	6.72	7.84	15½	8.68
15	9.00	5.10	7.20	8.40	16½	9.24
16	9.60	5.44	7.68	8.96	17½	9.80
17	10.20	5.78	8.16	9.52	18½	10.36
18	10.80	6.12	8.64	10.08	19½	10.92
19	11.40	6.46	9.12	10.64	20½	11.48
20	12.00	6.80	9.60	11.20	21½	12.04
21	12.60	7.14	10.08	11.76	22½	12.60
22	13.20	7.48	10.56	12.32	23½	13.16
23	13.80	7.82	11.04	12.88	24½	13.72
24	14.40	8.16	11.52	13.44	25½	14.28
25	15.00	8.50	12.00	14.00	26½	14.84
26	15.60	8.84	12.48	14.56	27½	15.40
27	16.20	9.18	12.96	15.12	28½	15.96
28	16.80	9.52	13.44	15.68	29½	16.52
29	17.40	9.86	13.92	16.24	30½	17.08
30	18.00	10.20	14.40	16.80	31½	17.64

## WEIGHTS OF GRADES—Minimum

Grades are not determined by weight alone. Quality must be considered. The following are the minimum weights for each grade:—

WHEAT	lbs.
1 Hard _____	62
1 Northern _____	60
2 Northern _____	58
3 Northern _____	57
4 Northern _____	56
4 Special _____	53
*No. 5 _____	53
*No. 6 _____	51
*No. 5 Special _____	51
*No. 6 Special _____	49

GARNET WHEAT	
No. 1 C.W. Garnet —	60
No. 2 C.W. Garnet —	58
No. 3 C.W. Garnet —	57

WHITE SPRING AND SOFT WHITE SPRING	
No. 1 C.W. _____	60
No. 2 C.W. _____	58
No. 3 C.W. _____	57
No. 4 C.W. _____	54

AMBER DURUM	
1 C.W. Amber Durum	62
2 C.W. Amber Durum	60
3 C.W. Amber Durum	58
Extra 4 C.W. _____	
Amber Durum	58
4 C.W. Amber Durum	56
5 C.W. Amber Durum	54
6 C.W. Amber Durum	51

WINTER WHEAT lbs.	
1 Alberta Red Winter	62
2 Alberta Winter _____	60
3 Alberta Winter _____	57
4 Alberta Winter _____	56

BUCKWHEAT	
No. 1 C.W. _____	50
No. 2 C.W. _____	48
No. 3 C.W. _____	45
No. 4 C.W. _____	42

FLAX SEED lbs.	
No. 1 C.W. _____	51
No. 2 C.W. _____	50
No. 3 C.W. _____	47
No. 4 C.W. _____	44

BARLEY	
1 C.W. Six-Row _____	50
2 C.W. Six-Row _____	48
3 C.W. Six-Row _____	46
1 C.W. Two-Row _____	51
2 C.W. Two-Row _____	49
3 C.W. Two-Row _____	47
1 Feed _____	46
2 Feed _____	43

RYE	
1 C.W. _____	58
2 C.W. _____	56
3 C.W. _____	54

RAPESEED	
No. 1 Canada _____	52
No. 2 Canada _____	50
No. 3 Canada _____	48

OATS	
1 C.W. _____	38
2 C.W. _____	36
Extra 3 C.W. _____	40
3 C.W. _____	34
Extra 1 Feed _____	38
No. 1 Feed _____	34
No. 2 Feed _____	28

CORN	
Yellow, White, Mixed	
1 C.W. _____	56
2 C.W. _____	54
3 C.W. _____	52
4 C.W. _____	50
5 C.W. _____	47

\*Subject to ruling of the Western Committee on Grain Standards.

# WEIGHTS OF GRADES—Minimum—Continued

## SOYBEANS

Yellow, Green, Brown, Black, Mixed lbs.		
No. 1 Canada	_____	58
No. 2 Canada	_____	56
No. 3 Canada	_____	54
No. 4 Canada	_____	51
No. 5 Canada	_____	48

## SUNFLOWER SEED

No. 1 C.W.	_____	24
No. 2 C.W.	_____	21
No. 3 C.W.	_____	21
No. 1 Mixed C.W.	_____	24
No. 2 Mixed C.W.	_____	21
No. 3 Mixed C.W.	_____	21

## PEAS

No. 1 C.W.	_____	62
No. 2 C.W.	_____	60
No. 3 C.W.	_____	58
No. Extra 4 C.W.	_____	58

## DOMESTIC MUSTARD

Oriental or Yellow Brown lbs. lbs.		
Extra 1 C.W.	58	—
1 C.W.	56	55
2 C.W.	54	54
3 C.W.	52	52

## STANDARD WEIGHT in contracts for sale and delivery

Barley	_____	48
Beans	_____	60
Buckwheat	_____	48
Corn	_____	56
Flax Seed	_____	56
Millet	_____	48
Oats	_____	34
Peas	_____	60
Rape	_____	50
Rye	_____	56
Speltz	_____	50
Soybeans	_____	60
Sunflower Seed	_____	30
Wheat	_____	60
Mixed Grain, No. 1	—	60
No. 2	—	56
No. 3	—	48
No. 4	—	34
Mustard Seed	_____	50

### LONG MEASURE

12 Inches	1 Foot
3 Feet	1 Yard
5½ Yards	1 Rod
320 Rods	1 Mile
1760 Yards	1 Mile
80 Chains	1 Mile
6 Feet	1 Fathom
69½ Miles	1 Degree
1760 Yds. or 5280 Ft.	1 Mile

### AVOIRDUPOIS WEIGHT

16 Drams	1 Ounce
16 Ounces	1 Pound
7000 Grains—16 oz.	1 Pound
100 Pounds	1 Hundred weight Cwt.
2000 Pounds, or 20 Cwt.	1 Ton

### SURVEYOR'S MEASURE

7.92 Inches	1 Link
25 Links	1 Rod
100 Links, 4 Rods, or 66 Feet	1 Chain
80 Chains	1 Mile
10 Square Chains	1 Acre
640 Acres	1 Square Mile

### SQUARE OR LAND MEASURE

144 Sq. Inches	1 Sq. Foot
9 Sq. Feet	1 Sq. Yard
80½ Sq. Yards	1 Sq. Rod
160 Sq. Rods	1 Acre
640 Acres	1 Sq. Mile

### DRY MEASURE

2 Pints	1 Quart
4 Quarts	1 Gallon
2 Gallons	1 Peck
4 Pecks	1 Bushel
66 Bushels	1 Chaldron

### MEASURE OF CAPACITY

2 Pints	1 Quart
4 Quarts	1 Gallon
81½ Gallons	1 Barrel
63 Gallons	1 Hogshead

### LIQUID MEASURE

6 tbsps.	1 gill
2 gills	1 cup
2 cups	1 pint
2 pints	1 quart
4 quarts	1 Gallon
1 pint	20 fluid ounces

## MEMBER COMPANIES

FEDERAL GRAIN LIMITED

ALBERTA PACIFIC GRAIN LTD.

SHEARLE GRAIN COMPANY, LIMITED

PIONEER GRAIN COMPANY, LIMITED

NATIONAL GRAIN COMPANY, LIMITED

N. M. PATERSON & SONS, LIMITED

MCCABE GRAIN COMPANY, LIMITED

PARRISH & HEIMBECKER, LIMITED

INTER-OCEAN GRAIN COMPANY, LIMITED

ELLISON MILLING & ELEVATOR COMPANY, LIMITED

SCOTTISH CO-OPERATIVE WHOLESALE SOCIETY, LIMITED

ROBIN HOOD FLOUR MILLS, LIMITED

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Additional copies of this booklet may be obtained from any of the above Companies or from The North-West Line Elevators Association, Winnipeg or Calgary.